



## Shenzhen Huaxia Testing Technology Co., Ltd

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640

Fax: +86-755-26648637

Website: [www.cqa-cert.com](http://www.cqa-cert.com)

Report Template Version: V05

Report Template Revision Date: 2018-07-06

# Test Report

**Report No.:** CQASZ20250501019E-04  
**Applicant:** Shenzhen Hollyland Technology Co.,Ltd.  
**Address of Applicant:** 8F, Building 5D,Skyworth Innovation Valley, Tangtou Road, Shiyan Street, Baoan District, Shenzhen, 518108, China  
**Equipment Under Test (EUT):**  
**Product:** Live Streaming Camera  
**Model No.:** VenusLiv Air  
**Teat Model No.:** VenusLiv Air  
**Brand Name:** HOLLYLAND, HOLLYVIEW, HOLLYVOX  
**FCC ID:** 2ADZC-4602  
**Standards:** 47 CFR Part 15, Subpart E  
KDB 789033 D02 General UNII Test Procedures New Rules v02r01  
**Date of Receipt:** 2025-05-09  
**Date of Test:** 2025-05-09 to 2025-06-19  
**Date of Issue:** 2025-06-26  
**Test Result:** **PASS\***

\*In the configuration tested, the EUT complied with the standards specified above.

**Tested By:** Lewis Zhou  
( Lewis Zhou )

**Reviewed By:** Timo Lei  
( Timo Lei )

**Approved By:** Jack Ai  
( Jack Ai )



## 1 Version

### Revision History Of Report

| Report No.           | Version | Description    | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20250501019E-04 | Rev.01  | Initial report | 2025-06-26 |

## 2 Test Summary

| Test Item                                                  | Test Requirement                                       | Test method                    | Result |
|------------------------------------------------------------|--------------------------------------------------------|--------------------------------|--------|
| Antenna Requirement                                        | 47 CFR Part 15 Subpart C<br>Section 15.203             | ANSI C63.10-2013;<br>KDB789033 | PASS   |
| AC Power Line Conducted<br>Emission                        | 47 CFR Part 15 Subpart E<br>Section 15.207             | ANSI C63.10-2013;<br>KDB789033 | PASS   |
| Maximum Conducted Output<br>Power                          | 47 CFR Part 15 Subpart C<br>Section 15.407 (a)         | ANSI C63.10-2013;<br>KDB789033 | PASS   |
| Emission Bandwidth                                         | 47 CFR Part 15 Subpart C<br>Section 15.407 (a)(e)      | ANSI C63.10-2013;<br>KDB789033 | PASS   |
| Maximum Power Spectral<br>Density                          | 47 CFR Part 15 Subpart E<br>Section 15.407 (a)         | ANSI C63.10-2013;<br>KDB789033 | PASS   |
| Band Edge Measurements                                     | 47 CFR Part 15 Subpart C<br>Section 15.209 & 15.407(b) | ANSI C63.10-2013;<br>KDB789033 | PASS   |
| Frequency stability                                        | 47 CFR Part 15 Subpart E<br>Section 15.407 (g)         | ANSI C63.10-2013;<br>KDB789033 | PASS   |
| Operation in the absence of<br>information to the transmit | 47 CFR Part 15 Subpart E<br>Section 15.407 (c)         | 47 CFR Part 15 Subpart E       | PASS   |
| Radiated Spurious Emissions                                | 47 CFR Part 15 Subpart E<br>Section 15.407 (b)         | ANSI C63.10-2013;<br>KDB789033 | PASS   |

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

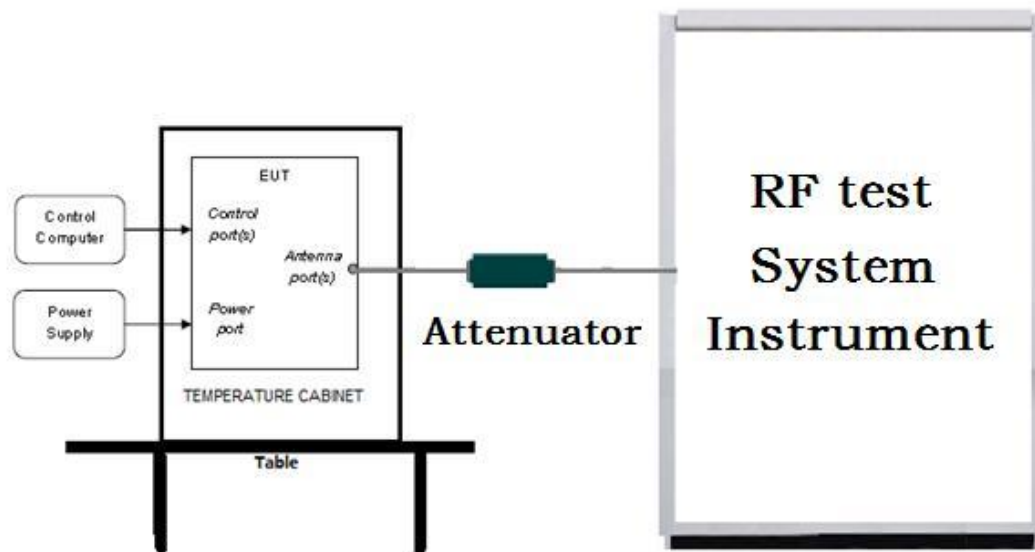
### 3 Content

|                                                                                      | Page |
|--------------------------------------------------------------------------------------|------|
| 1 VERSION .....                                                                      | 2    |
| 2 TEST SUMMARY .....                                                                 | 3    |
| 3 CONTENT .....                                                                      | 4    |
| 4 TEST REQUIREMENT .....                                                             | 5    |
| 4.1 TEST SETUP .....                                                                 | 5    |
| 4.1.1 For Conducted test setup .....                                                 | 5    |
| 4.1.2 For Radiated Emissions test setup .....                                        | 5    |
| 4.1.3 For Conducted Emissions test setup .....                                       | 6    |
| 4.2 TEST ENVIRONMENT .....                                                           | 6    |
| 4.3 TEST CONDITION .....                                                             | 7    |
| 5 GENERAL INFORMATION .....                                                          | 9    |
| 5.1 CLIENT INFORMATION .....                                                         | 9    |
| 5.2 GENERAL DESCRIPTION OF EUT .....                                                 | 9    |
| 5.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD .....                          | 10   |
| 5.4 DESCRIPTION OF SUPPORT UNITS .....                                               | 11   |
| 5.5 TEST CONFIGURATION .....                                                         | 11   |
| 5.6 TEST LOCATION .....                                                              | 12   |
| 5.7 TEST FACILITY .....                                                              | 12   |
| 5.8 DEVIATION FROM STANDARDS .....                                                   | 12   |
| 5.9 ABNORMALITIES FROM STANDARD CONDITIONS .....                                     | 12   |
| 5.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER .....                               | 12   |
| 5.11 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2) .....                      | 12   |
| 6 EQUIPMENT LIST .....                                                               | 13   |
| 7 RADIO TECHNICAL REQUIREMENTS SPECIFICATION .....                                   | 14   |
| Appendix A): Emission Bandwidth .....                                                | 15   |
| Appendix B): Maximum Conduct Output Power .....                                      | 36   |
| Appendix C): Maximum Power Spectral Density .....                                    | 56   |
| Appendix D): Band Edge Measurements .....                                            | 71   |
| 7.1.1 Test Result B1/2/3 .....                                                       | 73   |
| 7.1.2 Test Result B4 .....                                                           | 73   |
| 7.1.3 Test Graphs B1/2/3 .....                                                       | 75   |
| 7.1.4 Test Graphs B4 .....                                                           | 80   |
| Appendix E): Frequency Stability .....                                               | 85   |
| Appendix F): Antenna Requirement .....                                               | 87   |
| Appendix G): Operation in the absence of information to the transmit .....           | 88   |
| Appendix H): AC Power Line Conducted Emission .....                                  | 89   |
| Appendix I): Restricted bands around fundamental frequency (Radiated Emission) ..... | 92   |
| Appendix J): Radiated Spurious Emissions .....                                       | 99   |
| 8 PHOTOGRAPHS - EUT TEST SETUP .....                                                 | 106  |
| 9 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS .....                                     | 107  |

## 4 Test Requirement

### 4.1 Test setup

#### 4.1.1 For Conducted test setup



#### 4.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

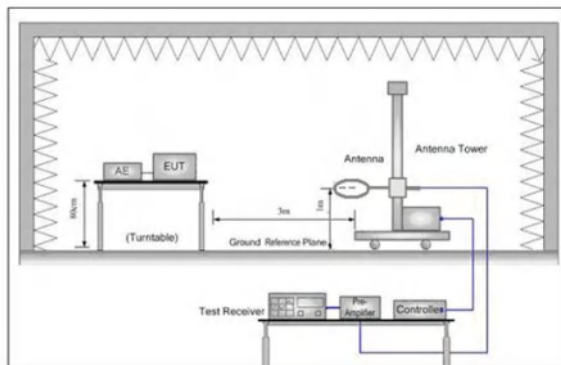


Figure 1. Below 30MHz

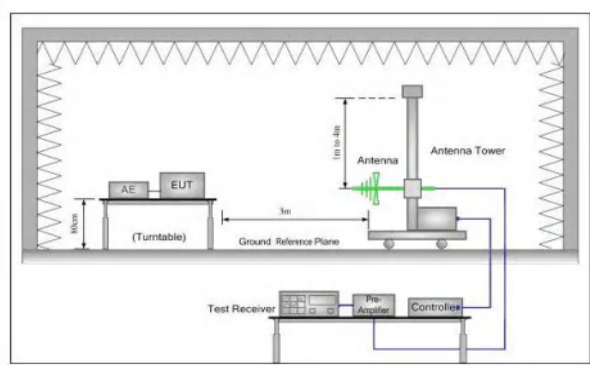


Figure 2. 30MHz to 1GHz

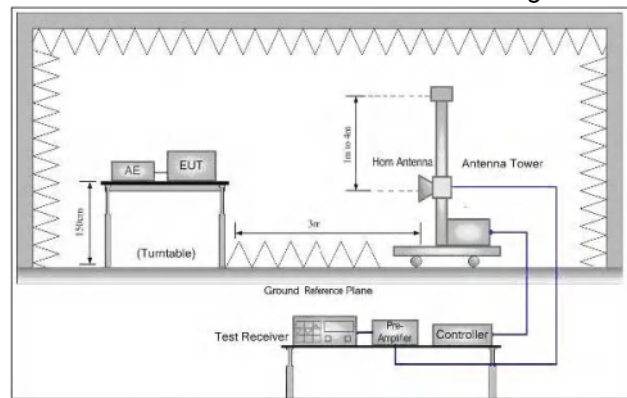
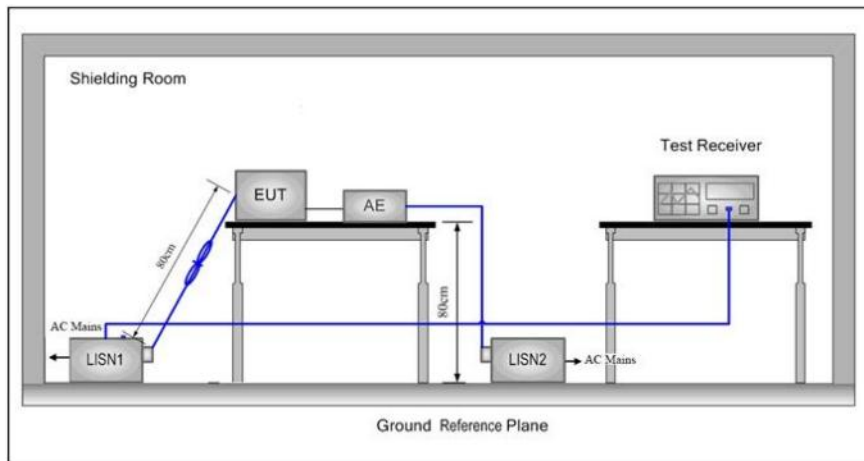


Figure 3. Above 1GHz

#### 4.1.3 For Conducted Emissions test setup

##### Conducted Emissions setup



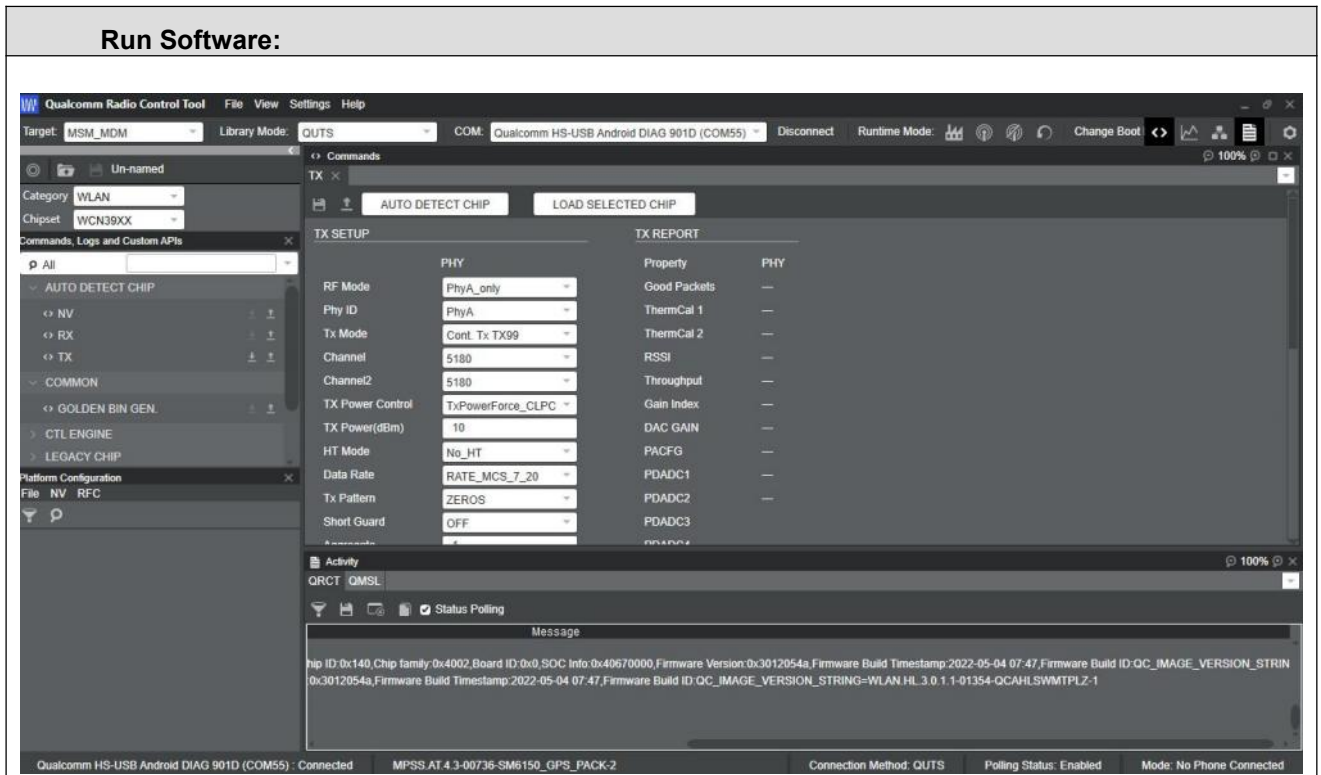
## 4.2 Test Environment

|                                                                                                                                                                                                                     |                  |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|
| <b>Operating Environment:</b>                                                                                                                                                                                       |                  |             |
| <b>Conducted Emissions:</b>                                                                                                                                                                                         |                  |             |
| Temperature:                                                                                                                                                                                                        | 25.6 °C          |             |
| Humidity:                                                                                                                                                                                                           | 60 % RH          |             |
| Atmospheric Pressure:                                                                                                                                                                                               | 1009 mbar        |             |
| <b>Radiated Emissions:</b>                                                                                                                                                                                          |                  |             |
| Temperature:                                                                                                                                                                                                        | 25.5 °C          |             |
| Humidity:                                                                                                                                                                                                           | 54 % RH          |             |
| Atmospheric Pressure:                                                                                                                                                                                               | 1009mbar         |             |
| <b>Radio conducted item test (RF Conducted test room):</b>                                                                                                                                                          |                  |             |
| Temperature:                                                                                                                                                                                                        | 25.3 °C          |             |
| Humidity:                                                                                                                                                                                                           | 50 % RH          |             |
| Atmospheric Pressure:                                                                                                                                                                                               | 1009 mbar        |             |
| Test Condition                                                                                                                                                                                                      | Temperature (°C) | Voltage (V) |
| TN/VN                                                                                                                                                                                                               | +15 to +35       | 12.00       |
| TL/VL                                                                                                                                                                                                               | -30              | 10.80       |
| TH/VL                                                                                                                                                                                                               | 50               | 10.80       |
| TL/VH                                                                                                                                                                                                               | -30              | 13.20       |
| TH/VH                                                                                                                                                                                                               | 50               | 13.20       |
| Remark:                                                                                                                                                                                                             |                  |             |
| 1)The EUT just work in such extreme temperature of -30 °C to 50 °C and the extreme voltage of 10.80V to 13.20V, so here the EUT is tested in the temperature of -30 °C to 50 °C and the voltage of 10.80V to 13.2V. |                  |             |
| 2)VN: Normal Voltage; TN: Normal Temperature;                                                                                                                                                                       |                  |             |
| TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;                                                                                                                                                |                  |             |
| VL : Low Extreme Test Voltage; VH: High Extreme Test Voltage.                                                                                                                                                       |                  |             |

### 4.3 Test Condition

Test channel:

| Test Mode         | Tx/Rx             | RF Channel  |             |             |
|-------------------|-------------------|-------------|-------------|-------------|
|                   |                   | Low(L)      | Middle(M)   | High(H)     |
| 802.11a/n/ac(20M) | 5150MHz ~5250 MHz | Channel 36  | Channel 40  | Channel 48  |
|                   |                   | 5180MHz     | 5200MHz     | 5240MHz     |
| 802.11n/ac(40M)   | 5150MHz ~5250 MHz | Channel 38  | N/A         | Channel 46  |
|                   |                   | 5190MHz     | N/A         | 5230MHz     |
| 802.11n/ac(80M)   | 5150MHz ~5250 MHz | N/A         | Channel 42  | N/A         |
|                   |                   | N/A         | 5210MHz     | N/A         |
| 802.11a/n/ac(20M) | 5725MHz ~5850 MHz | Channel 149 | Channel 157 | Channel 165 |
|                   |                   | 5745MHz     | 5785MHz     | 5825MHz     |
| 802.11n/ac(40M)   | 5725MHz ~5850 MHz | Channel 151 | N/A         | Channel 159 |
|                   |                   | 5755MHz     | N/A         | 5795MHz     |
| 802.11n/ac(80M)   | 5725MHz ~5850 MHz | N/A         | Channel 155 | N/A         |
|                   |                   | N/A         | 5775MHz     | N/A         |



### Test mode:

#### Pre-scan under all rate at lowest channel for Ant1

Through Pre-scan, 6Mbps is the worst case of 802.11a (20M); MCS0 is the worst case of 802.11n (20M); MCS0 is the worst case of 802.11ac (20M); MCS0 is the worst case of 802.11n(40M); MCS0 is the worst case of 802.11ac (40M); MCS0 is the worst case of 802.11ac (80M)

## 5 General Information

### 5.1 Client Information

|                          |                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------|
| Applicant:               | Shenzhen Hollyland Technology Co.,Ltd.                                                                           |
| Address of Applicant:    | 8F, Building 5D,Skyworth Innovation Valley, Tangtou Road, Shiyan Street, Baoan District, Shenzhen, 518108, China |
| Manufacturer:            | Shenzhen Hollyland Technology Co.,Ltd.                                                                           |
| Address of Manufacturer: | 8F, Building 5D,Skyworth Innovation Valley, Tangtou Road, Shiyan Street, Baoan District, Shenzhen, 518108, China |
| Factory:                 | Shenzhen Hollyland Technology Co.,Ltd.                                                                           |
| Address of Factory:      | 8F, Building 5D,Skyworth Innovation Valley, Tangtou Road, Shiyan Street, Baoan District, Shenzhen, 518108, China |

### 5.2 General Description of EUT

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Product Name:                    | Live Streaming Camera                                                                                                      |
| Model No.:                       | VenusLiv Air                                                                                                               |
| Test Model No.:                  | VenusLiv Air                                                                                                               |
| Trade Mark:                      | HOLLYLAND, HOLLYVIEW, HOLLYVOX                                                                                             |
| Software version:                | S1.1.0.50                                                                                                                  |
| Hardware version:                | V28                                                                                                                        |
| EUT Power Supply:                | Power supply DC12V form adapter<br><br>Adapter:<br>Model:R241-1202000I<br>Input:100-240V~50/60Hz 1.5A<br>Output:12V 2A 24W |
| EUT Supports Radios application: | U-NII-1: 5.15-5.25GHz; U-NII-3: 5.725-5.850GHz                                                                             |
| EUT Type:                        | Client devices                                                                                                             |

### 5.3 Product Specification subjective to this standard

|                       |                                                                                                                                                                                                                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation Frequency:  | IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz<br>IEEE802.11n/ac(40M): 5150MHz ~5250 MHz<br>IEEE802.11ac(80M): 5150MHz ~5250 MHz<br>IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz<br>IEEE802.11n/ac(40M): 5725MHz ~5850 MHz<br>IEEE802.11ac(80M): 5725MHz ~5850 MHz                                                                 |
| Channel Numbers:      | IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel<br>IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel<br>IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel<br>IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel<br>IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel<br>IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel |
| Type of Modulation:   | IEEE for 802.11a/n/ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                                                                                                                              |
| Sample Type:          | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable                                                                                                                                                                                                                                               |
| Test Software of EUT: | Qualcomm                                                                                                                                                                                                                                                                                                                   |
| Antenna Type:         | FPC antenna                                                                                                                                                                                                                                                                                                                |
| Antenna gain:         | 3.82dBi                                                                                                                                                                                                                                                                                                                    |
| Cable loss:           | 1.0 dB                                                                                                                                                                                                                                                                                                                     |

Operation Frequency each of channel

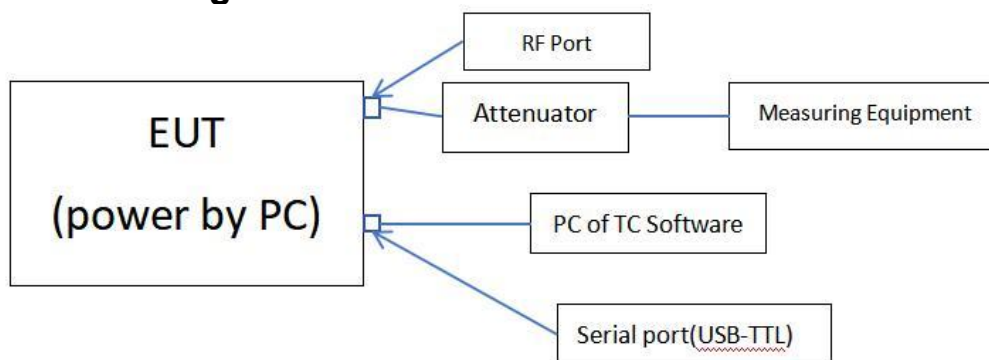
| (U-NII-1) 5180MHz-5240MHz |         |                 |         |                 |
|---------------------------|---------|-----------------|---------|-----------------|
| Bandwidth                 | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20MHz                     | 36      | 5180            | 40      | 5200            |
|                           | 44      | 5220            | 48      | 5240            |
| 40MHz                     | 38      | 5190            | 46      | 5230            |
| 80MHz                     | 42      | 5210            | /       | /               |
| (U-NII-3) 5745MHz-5825MHz |         |                 |         |                 |
| Bandwidth                 | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20MHz                     | 149     | 5745            | 153     | 5765            |
|                           | 157     | 5785            | 161     | 5805            |
|                           | 165     | 5825            | /       | /               |
| 40MHz                     | 151     | 5755            | 159     | 5795            |
| 80MHz                     | 165     | 5775            | /       | /               |

## 5.4 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. | Certification | Supplied by |
|-------------|--------------|-----------|---------------|-------------|
| /           | /            | /         | /             | /           |

## 5.5 Test configuration



## 5.6 Test Location

All tests were performed at:

**Shenzhen Huaxia Testing Technology Co., Ltd.**

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

## 5.7 Test Facility

• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

## 5.8 Deviation from Standards

None.

## 5.9 Abnormalities from Standard Conditions

None.

## 5.10 Other Information Requested by the Customer

None.

## 5.11 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $3 \times 10^{-8}$      |
| 2   | RF power, conducted             | 0.86dB                  |
| 3   | Radiated Spurious emission test | 5.12dB (Below 1GHz)     |
|     |                                 | 4.6dB (Above 1GHz)      |
| 4   | Conduction emission             | 3.5dB (9kHz to 150kHz)  |
|     |                                 | 3.1dB (150kHz to 30MHz) |
| 5   | Temperature test                | 0.8°C                   |
| 6   | Humidity test                   | 2.0%                    |
| 7   | DC power voltages               | 0.5%                    |

## 6 Equipment List

| Test Equipment                            | Manufacturer | Model No.              | Instrument No. | Calibration Date | Calibration Due Date |
|-------------------------------------------|--------------|------------------------|----------------|------------------|----------------------|
| EMI Test Receiver                         | R&S          | ESR7                   | CQA-005        | 2024/9/2         | 2025/9/1             |
| Spectrum analyzer                         | R&S          | FSU26                  | CQA-038        | 2024/9/2         | 2025/9/1             |
| Spectrum analyzer                         | R&S          | FSU40                  | CQA-075        | 2024/9/2         | 2025/9/1             |
| Preamplifier                              | MITEQ        | AFS4-00010300-18-10P-4 | CQA-035        | 2024/9/2         | 2025/9/1             |
| Preamplifier                              | MITEQ        | AMF-6D-02001800-29-20P | CQA-036        | 2024/9/2         | 2025/9/1             |
| Preamplifier                              | EMCI         | EMC184055SE            | CQA-089        | 2024/9/2         | 2025/9/1             |
| Loop antenna                              | Schwarzbeck  | FMZB1516               | CQA-060        | 2023/9/8         | 2026/9/7             |
| Bilog Antenna                             | R&S          | HL562                  | CQA-011        | 2023/11/01       | 2026/10/31           |
| Horn Antenna                              | R&S          | HF906                  | CQA-012        | 2023/11/01       | 2026/10/31           |
| Horn Antenna                              | Schwarzbeck  | BBHA 9170              | CQA-088        | 2023/9/7         | 2026/9/6             |
| Coaxial Cable (Above 1GHz)                | CQA          | N/A                    | C007           | 2024/9/2         | 2025/9/1             |
| Coaxial Cable (Below 1GHz)                | CQA          | N/A                    | C013           | 2024/9/2         | 2025/9/1             |
| RF cable(9KHz~40GHz)                      | CQA          | RF-01                  | CQA-079        | 2024/9/2         | 2025/9/1             |
| Antenna Connector                         | CQA          | RFC-01                 | CQA-080        | 2024/9/2         | 2025/9/1             |
| Power Sensor                              | KEYSIGHT     | U2021XA                | CQA-30         | 2024/9/2         | 2025/9/1             |
| N1918A Power Analysis Manager Power Panel | Agilent      | N1918A                 | CQA-074        | 2024/9/2         | 2025/9/1             |
| Power meter                               | R&S          | NRVD                   | CQA-029        | 2024/9/2         | 2025/9/1             |
| Power divider                             | MIDWEST      | PWD-2533-02-SMA-79     | CQA-067        | 2024/9/2         | 2025/9/1             |
| EMI Test Receiver                         | R&S          | ESR7                   | CQA-005        | 2024/9/2         | 2025/9/1             |
| LISN                                      | R&S          | ENV216                 | CQA-003        | 2024/9/2         | 2025/9/1             |
| Coaxial cable                             | CQA          | N/A                    | CQA-C009       | 2024/9/2         | 2025/9/1             |
| DC power                                  | KEYSIGHT     | E3631A                 | CQA-028        | 2024/9/2         | 2025/9/1             |

Test software:

|                                   | Manufacturer | Software brand | Software version |
|-----------------------------------|--------------|----------------|------------------|
| Radiated Emissions test software  | Tonscend     | JS1120-3       | Version:8        |
| Conducted Emissions test software | Audix        | e3             | Version:9        |
| RF Conducted test software        | Audix        | e3             | V3.5.39          |

## 7 Radio Technical Requirements Specification

### Reference documents for testing:

| No. | Identity                                                      | Document Title                                                                                                        |
|-----|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1   | FCC Part15E                                                   | Subpart C-Intentional Radiators                                                                                       |
| 2   | ANSI C63.10-2013                                              | American National Standard for Testing Unlicensed Wireless Devices                                                    |
| 3   | KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 | Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E |

## Appendix A): Emission Bandwidth

### 26dB Emission bandwidth

Test Requirement: 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II C 1

### 6 dB bandwidth (5.725-5.85 GHz band )

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

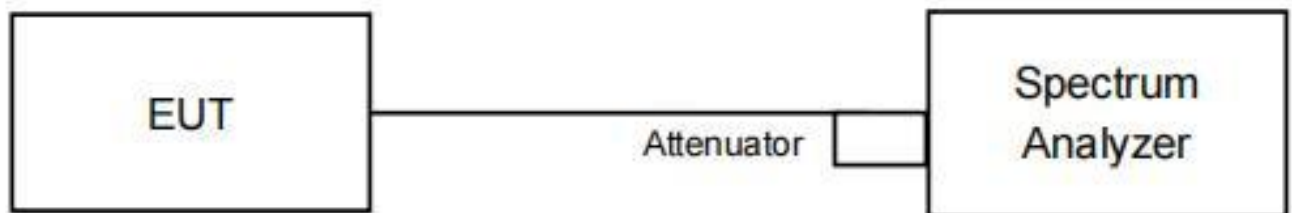
Test Method: KDB 789033 D02 II C 2

**Limit:  $\geq 500$  kHz**

### Test Procedure:

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

### Test Setup Diagram



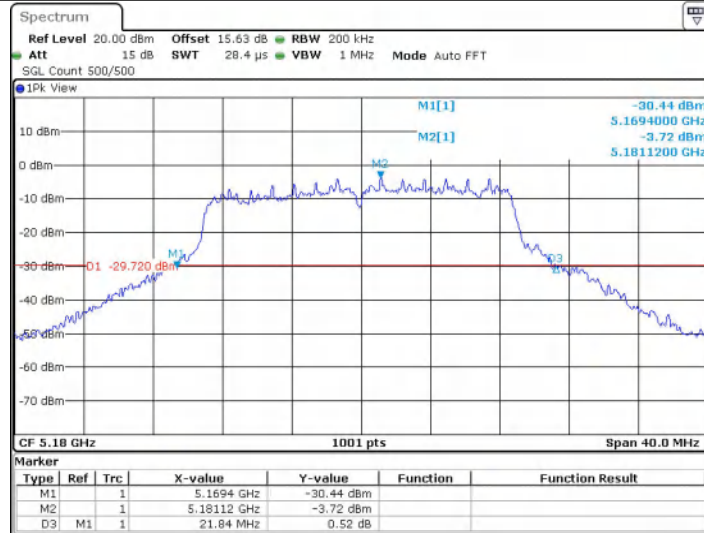
Result Table

| TestMode   | Freq(MHz) | 26db EBW [MHz] | FL[MHz] | FH[MHz] |
|------------|-----------|----------------|---------|---------|
| 11A        | 5180      | 21.84          | 5169.40 | 5191.24 |
|            | 5200      | 21.52          | 5188.80 | 5210.32 |
|            | 5240      | 22.92          | 5229.36 | 5252.28 |
|            | 5745      | 23.40          | 5731.88 | 5755.28 |
|            | 5785      | 21.72          | 5774.96 | 5796.68 |
|            | 5825      | 23.64          | 5813.52 | 5837.16 |
| 11N20SISO  | 5180      | 22.32          | 5169.40 | 5191.72 |
|            | 5200      | 20.92          | 5188.76 | 5209.68 |
|            | 5240      | 21.88          | 5229.68 | 5251.56 |
|            | 5745      | 22.60          | 5732.16 | 5754.76 |
|            | 5785      | 21.12          | 5774.84 | 5795.96 |
|            | 5825      | 24.92          | 5812.92 | 5837.84 |
| 11N40SISO  | 5190      | 39.92          | 5169.76 | 5209.68 |
|            | 5230      | 40.88          | 5209.84 | 5250.72 |
|            | 5755      | 41.20          | 5733.40 | 5774.60 |
|            | 5795      | 38.88          | 5775.32 | 5814.20 |
| 11AC20SISO | 5180      | 22.92          | 5168.76 | 5191.68 |
|            | 5200      | 21.08          | 5189.12 | 5210.20 |
|            | 5240      | 21.12          | 5229.84 | 5250.96 |
|            | 5745      | 22.28          | 5732.28 | 5754.56 |
|            | 5785      | 21.20          | 5775.00 | 5796.20 |
|            | 5825      | 23.88          | 5813.32 | 5837.20 |
| 11AC40SISO | 5190      | 39.76          | 5169.84 | 5209.60 |
|            | 5230      | 41.04          | 5209.76 | 5250.80 |
|            | 5755      | 42.00          | 5732.84 | 5774.84 |
|            | 5795      | 38.88          | 5775.40 | 5814.28 |
| 11AC80SISO | 5210      | 82.88          | 5169.20 | 5252.08 |
|            | 5775      | 84.16          | 5730.68 | 5814.84 |

| TestMode   | Freq(MHz) | 6db EBW<br>[MHz] | Limit[MHz] | Verdict |
|------------|-----------|------------------|------------|---------|
| 11A        | 5745      | 16.32            | 0.5        | PASS    |
|            | 5785      | 13.44            | 0.5        | PASS    |
|            | 5825      | 17.20            | 0.5        | PASS    |
| 11N20SISO  | 5745      | 16.32            | 0.5        | PASS    |
|            | 5785      | 16.32            | 0.5        | PASS    |
|            | 5825      | 15.96            | 0.5        | PASS    |
| 11N40SISO  | 5755      | 35.84            | 0.5        | PASS    |
|            | 5795      | 16.32            | 0.5        | PASS    |
| 11AC20SISO | 5745      | 15.04            | 0.5        | PASS    |
|            | 5785      | 13.80            | 0.5        | PASS    |
|            | 5825      | 15.92            | 0.5        | PASS    |
| 11AC40SISO | 5755      | 23.20            | 0.5        | PASS    |
|            | 5795      | 16.32            | 0.5        | PASS    |
| 11AC80SISO | 5775      | 63.36            | 0.5        | PASS    |

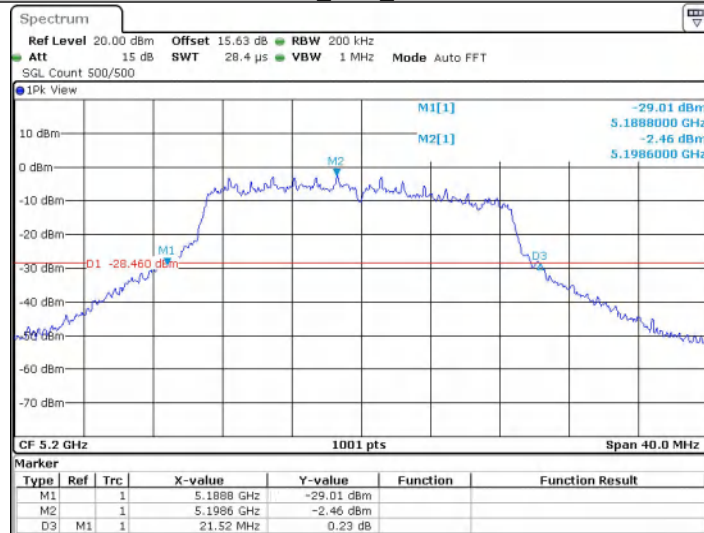
## Test Graph

11A\_Ant1\_5180



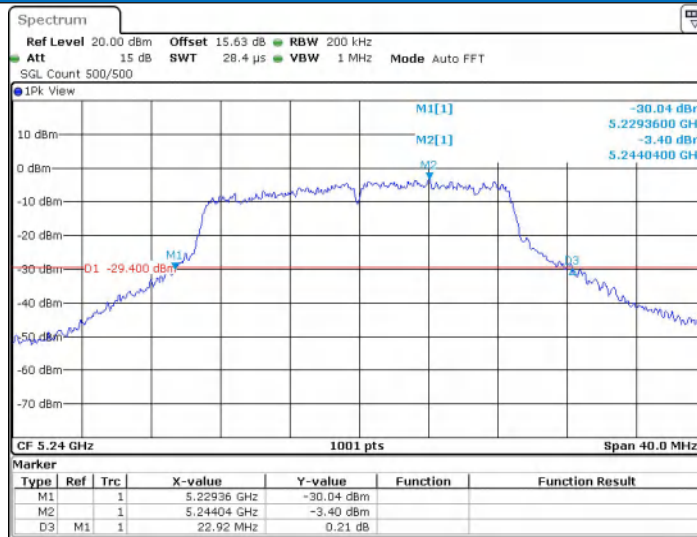
Date: 17 JUN 2025 20:16:38

11A\_Ant1\_5200



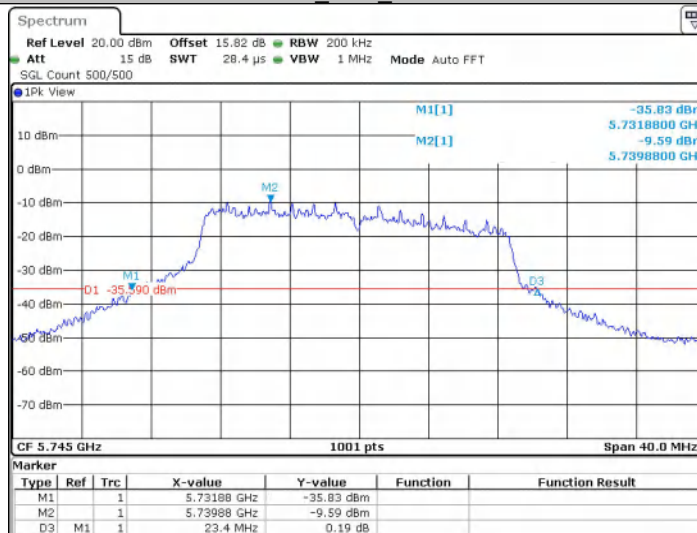
Date: 17 JUN 2025 20:18:01

11A\_Ant1\_5240



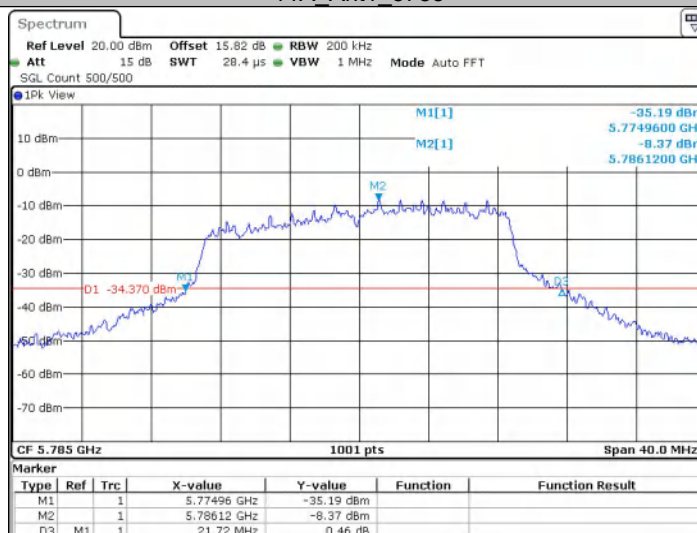
Date: 17 JUN 2025 20:18:42

### 11A\_Ant1\_5745



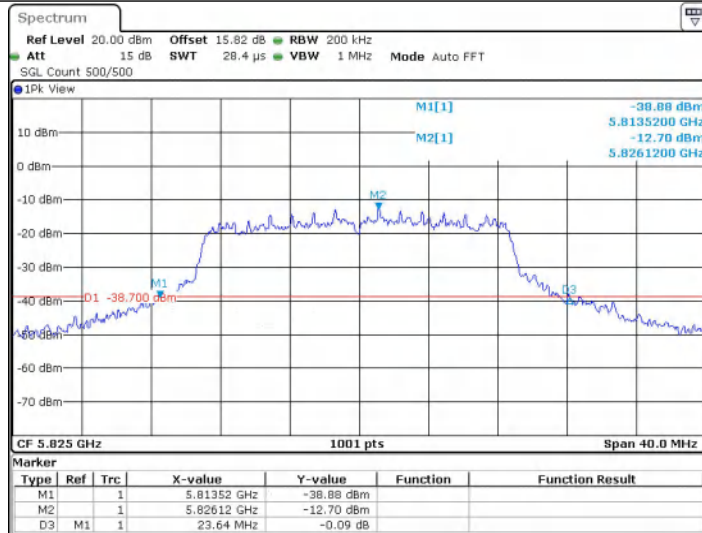
Date: 17 JUN 2025 20:19:36

### 11A\_Ant1\_5785



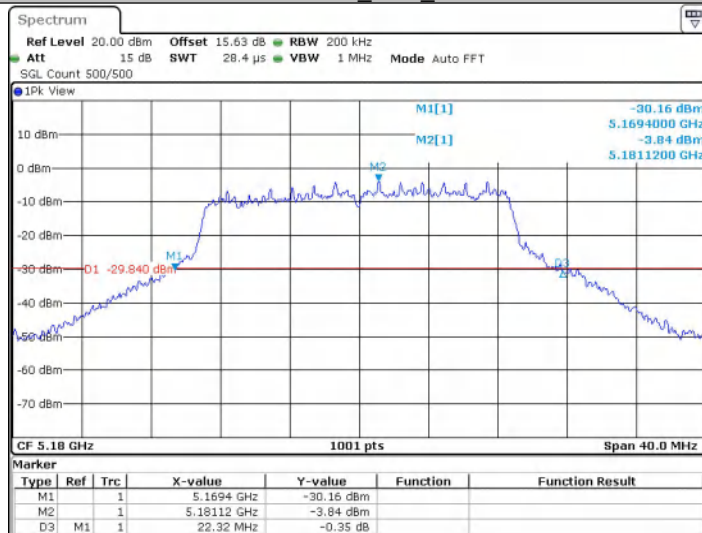
Date: 17 JUN 2025 20:20:55

11A\_Ant1\_5825



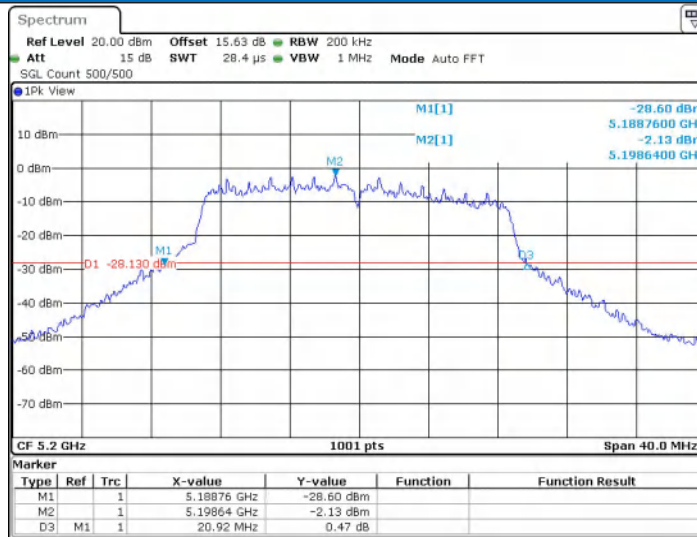
Date: 17 JUN 2025 20:22:12

11N20SISO\_Ant1\_5180



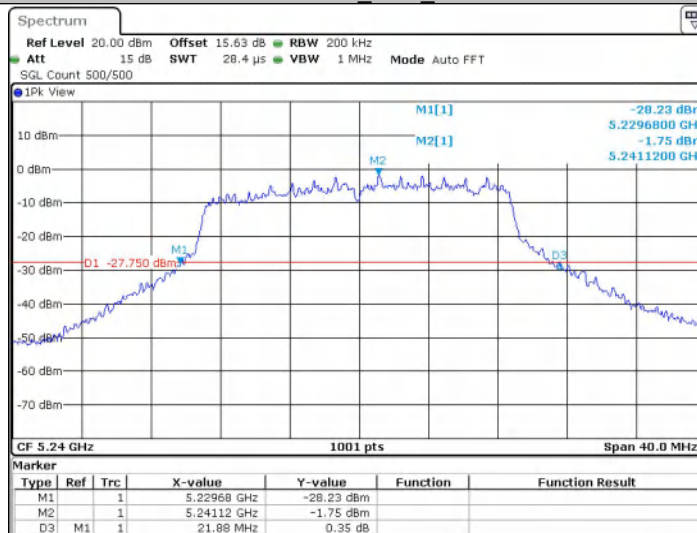
Date: 17 JUN 2025 20:23:40

11N20SISO\_Ant1\_5200



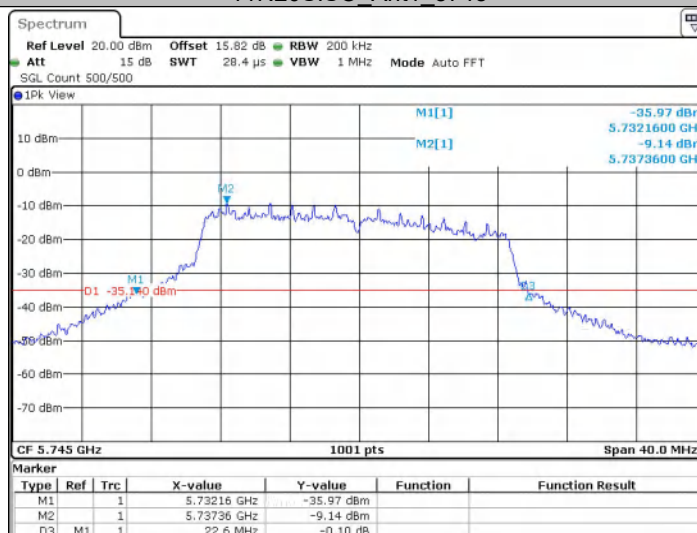
Date: 17 JUN 2025 20:24:38

### 11N20SISO\_Ant1\_5240



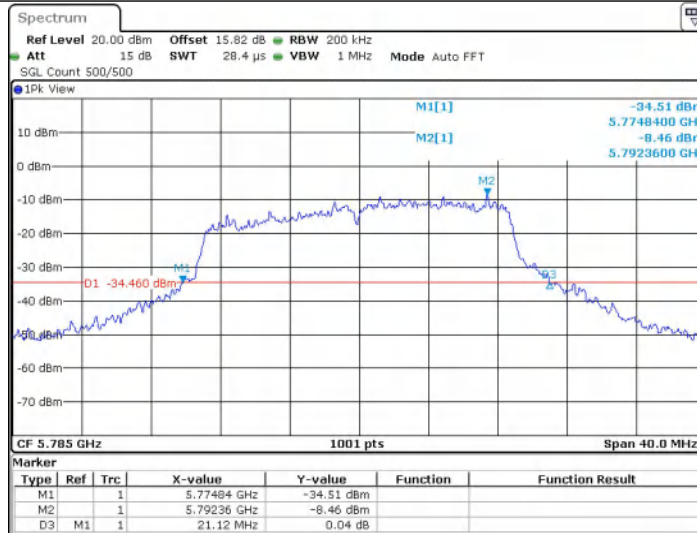
Date: 17 JUN 2025 20:25:28

### 11N20SISO\_Ant1\_5745



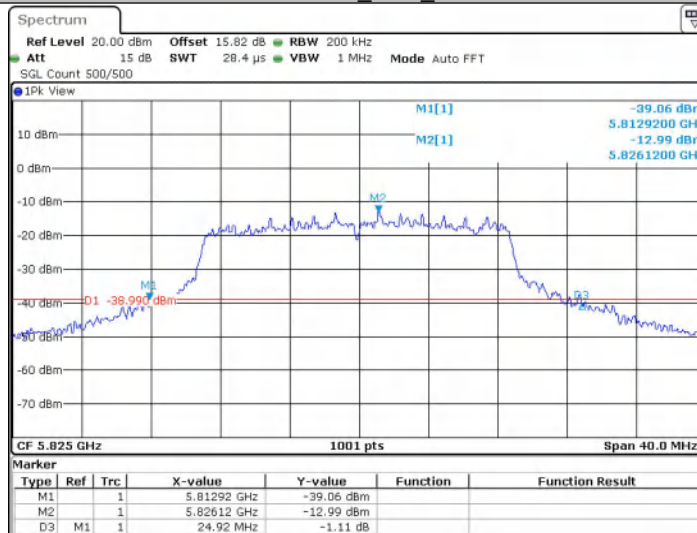
Date: 17 JUN 2025 20:26:27

11N20SISO\_Ant1\_5785



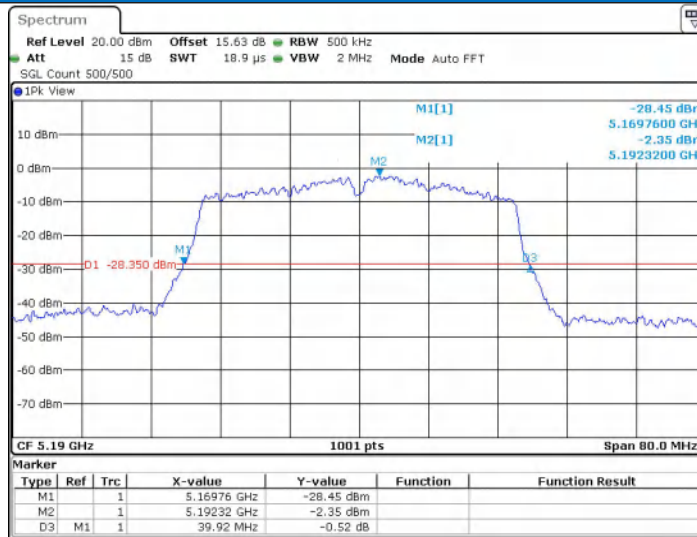
Date: 17 JUN 2025 20:27:00

11N20SISO\_Ant1\_5825



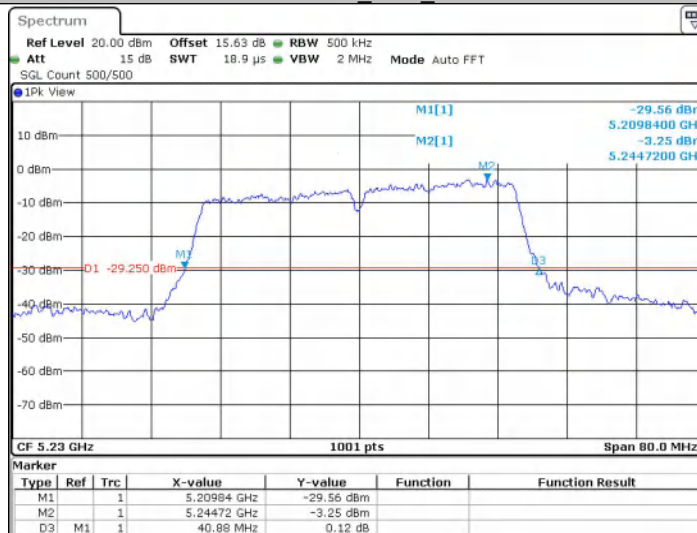
Date: 17 JUN 2025 20:27:44

11N40SISO\_Ant1\_5190



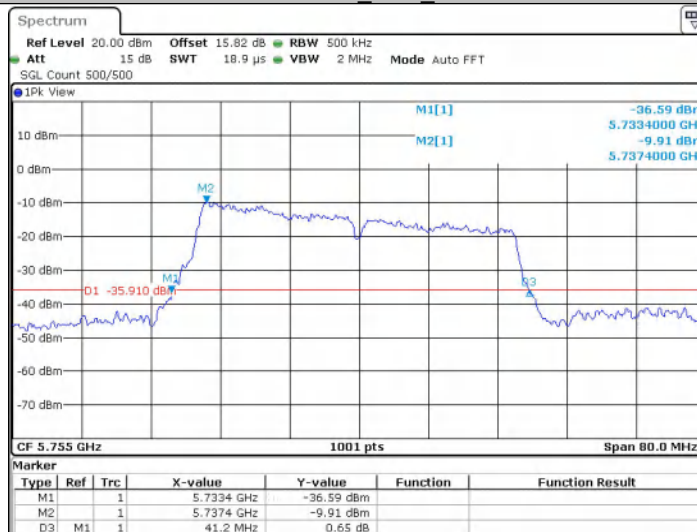
Date: 17 JUN 2025 20:28:45

### 11N40SISO\_Ant1\_5230



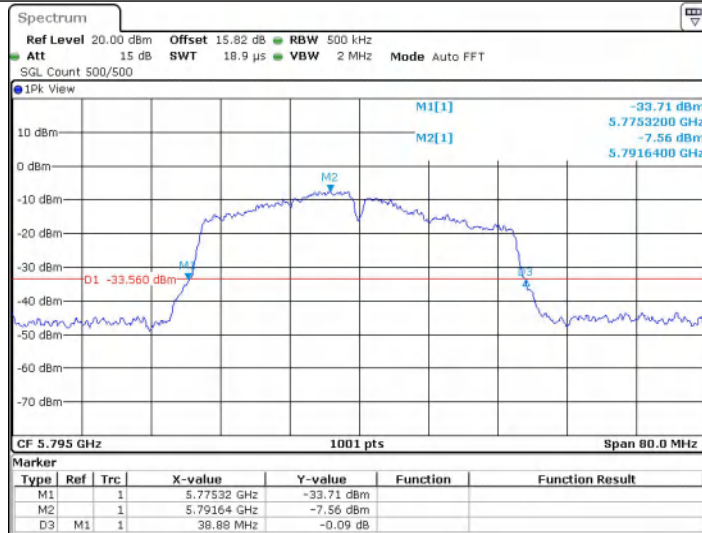
Date: 17 JUN 2025 20:29:23

### 11N40SISO\_Ant1\_5755



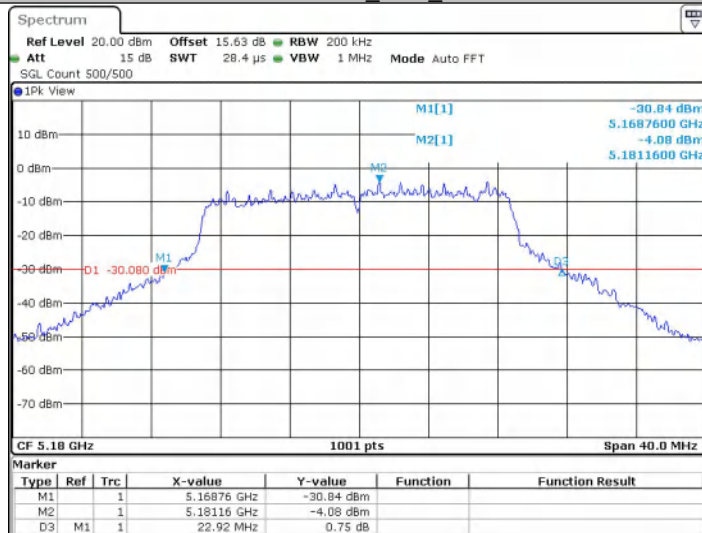
Date: 17 JUN 2025 20:31:01

11N40SISO\_Ant1\_5795



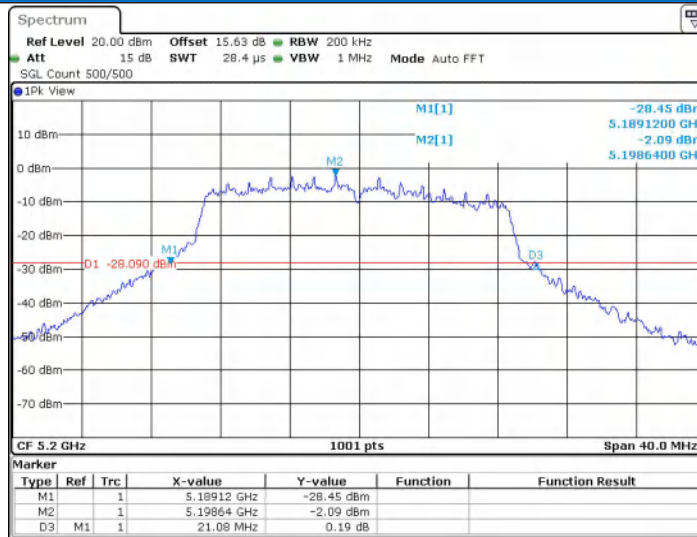
Date: 17 JUN 2025 20:32:24

11AC20SISO\_Ant1\_5180



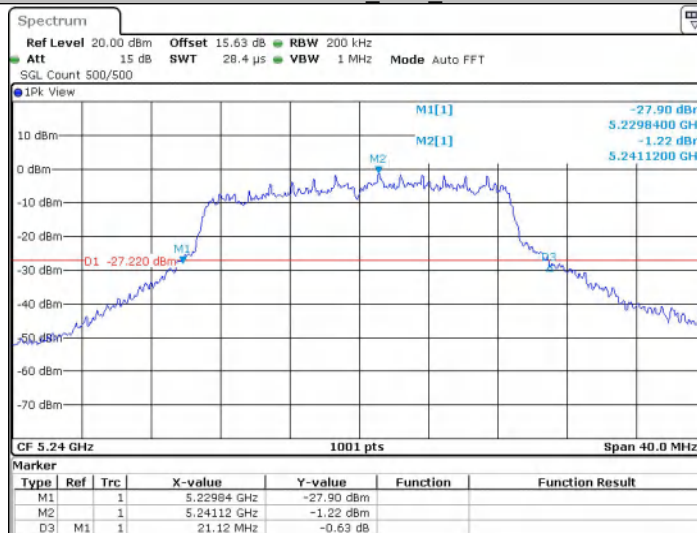
Date: 17 JUN 2025 20:33:40

11AC20SISO\_Ant1\_5200



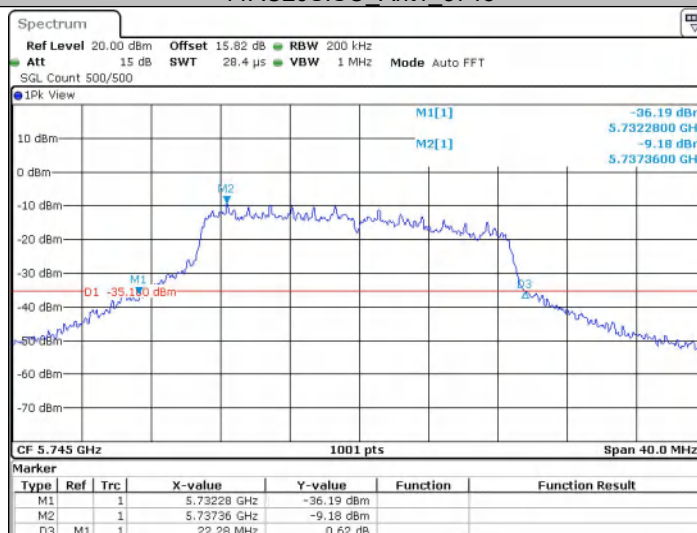
Date: 17 JUN 2025 20:34:50

### 11AC20SISO\_Ant1\_5240



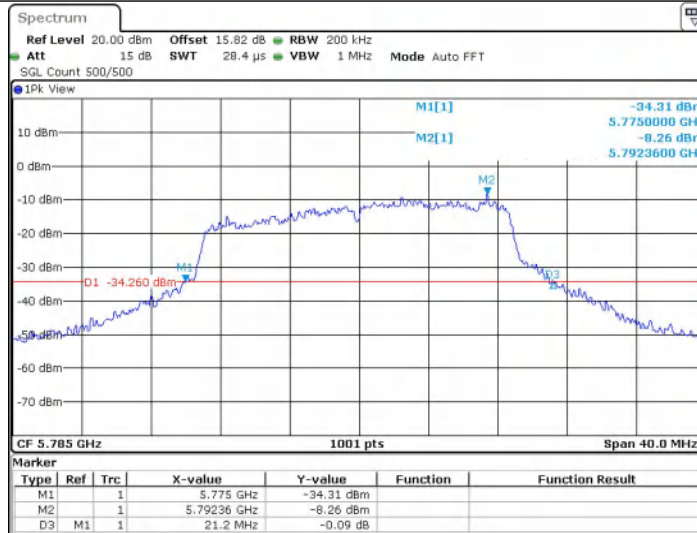
Date: 17 JUN 2025 20:38:27

### 11AC20SISO\_Ant1\_5745



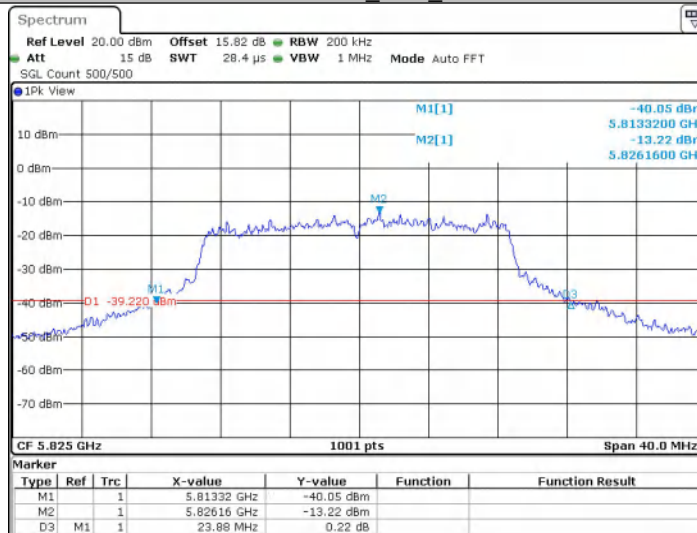
Date: 17 JUN 2025 20:39:15

11AC20SISO\_Ant1\_5785



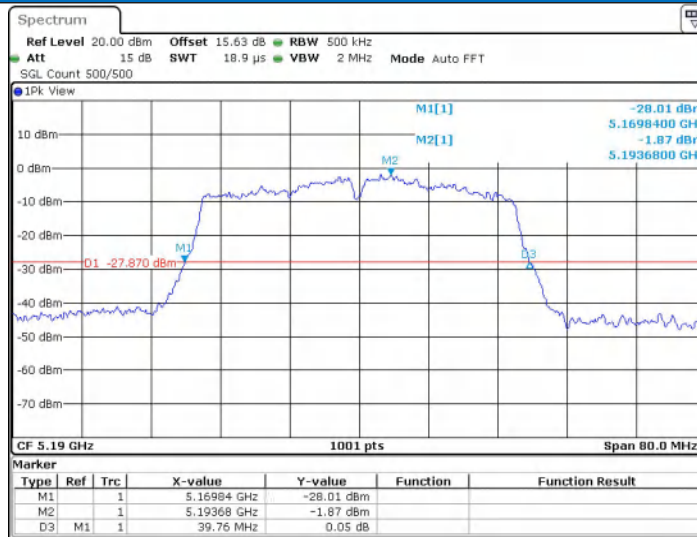
Date: 17 JUN 2025 20:40:59

11AC20SISO\_Ant1\_5825



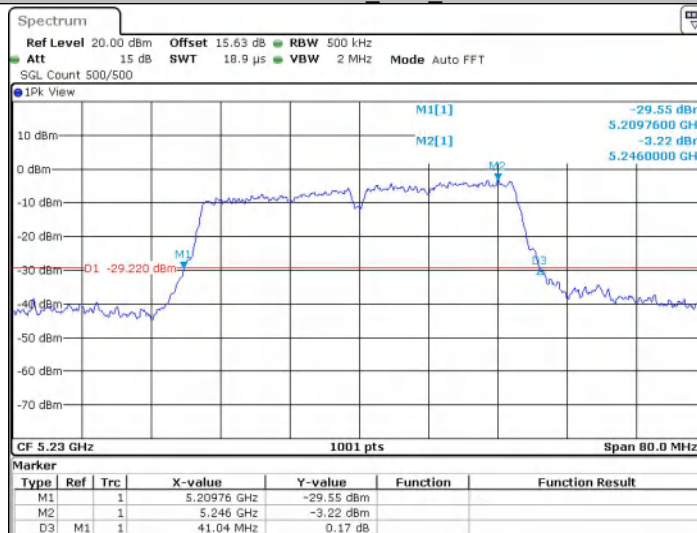
Date: 17 JUN 2025 20:41:32

11AC40SISO\_Ant1\_5190



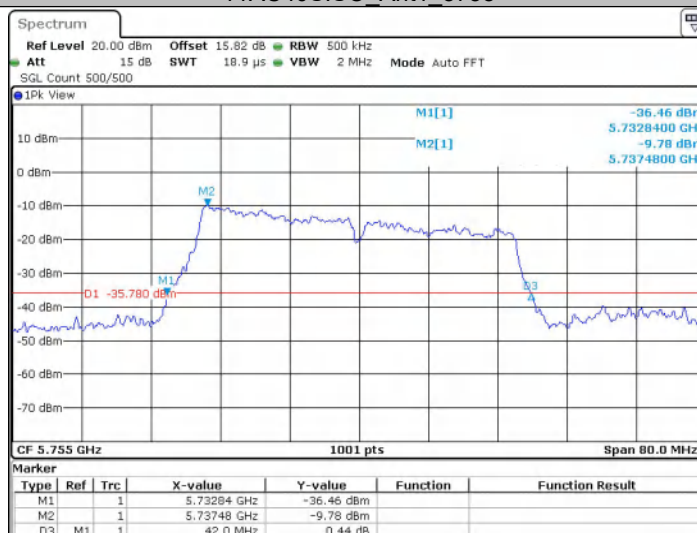
Date: 17 JUN 2025 20:42:21

### 11AC40SISO\_Ant1\_5230



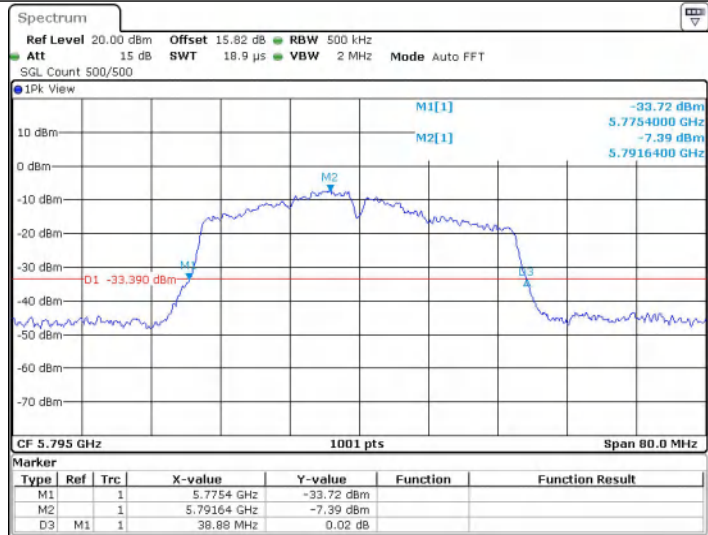
Date: 17 JUN 2025 20:43:02

### 11AC40SISO\_Ant1\_5755



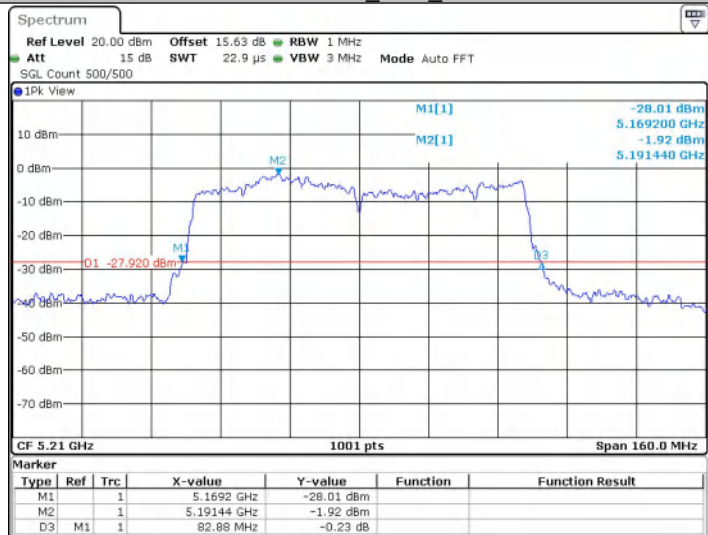
Date: 17 JUN 2025 20:43:41

11AC40SISO\_Ant1\_5795



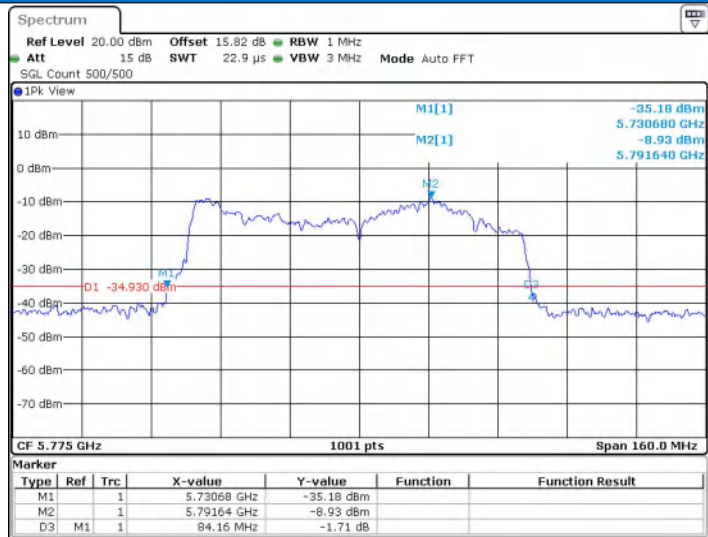
Date: 17 JUN 2025 20:44:26

11AC80SISO\_Ant1\_5210



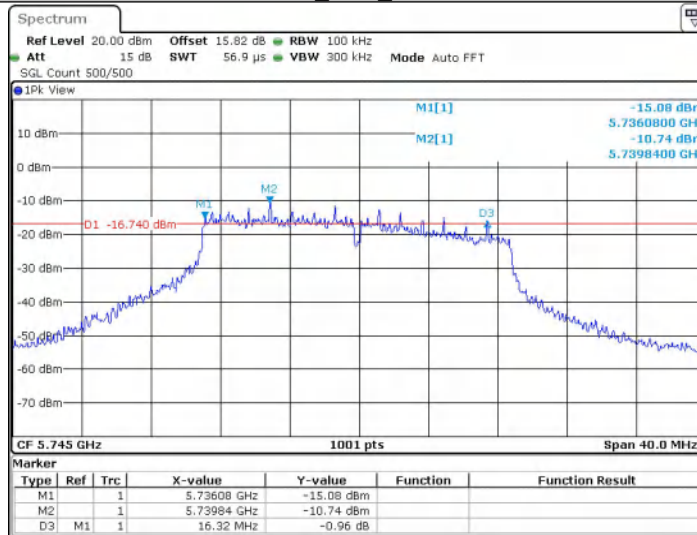
Date: 17 JUN 2025 20:45:26

11AC80SISO\_Ant1\_5775



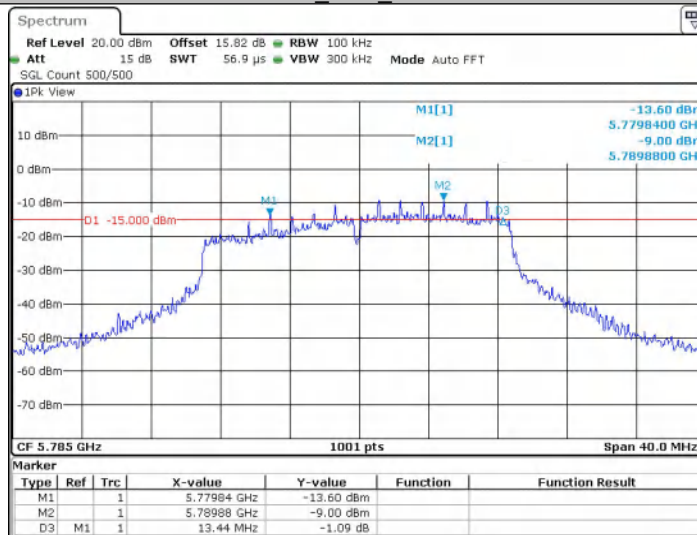
Date: 17 JUN 2025 20:47:28

11A\_Ant1\_5745



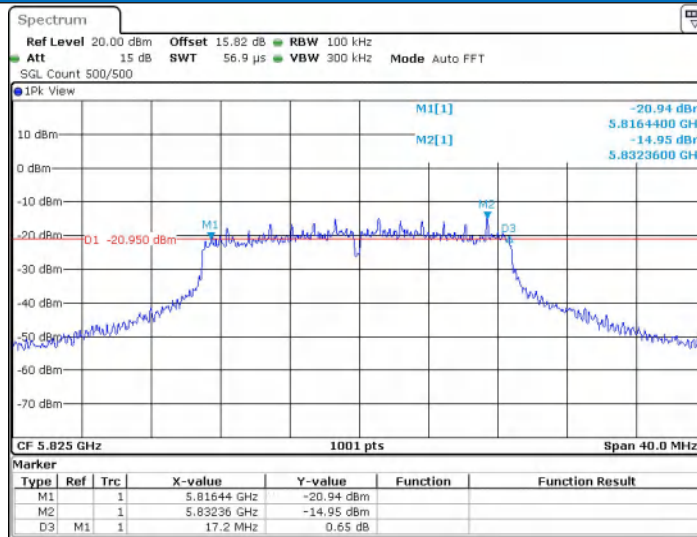
Date: 17 JUN 2025 20:19:44

11A\_Ant1\_5785



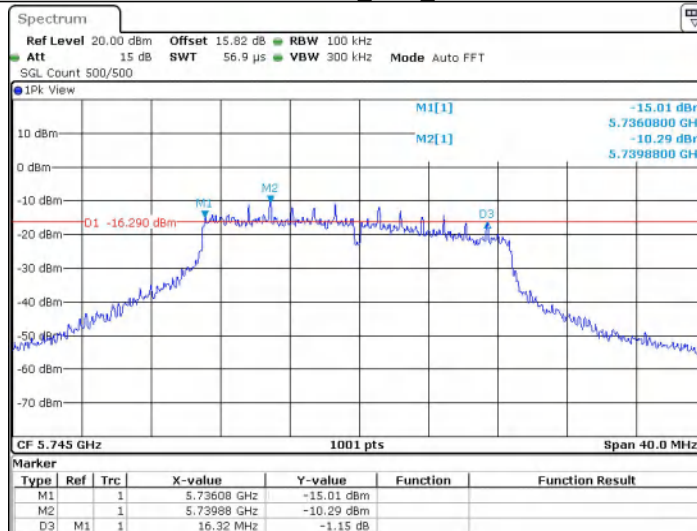
Date: 17 JUN 2025 20:21:03

11A\_Ant1\_5825



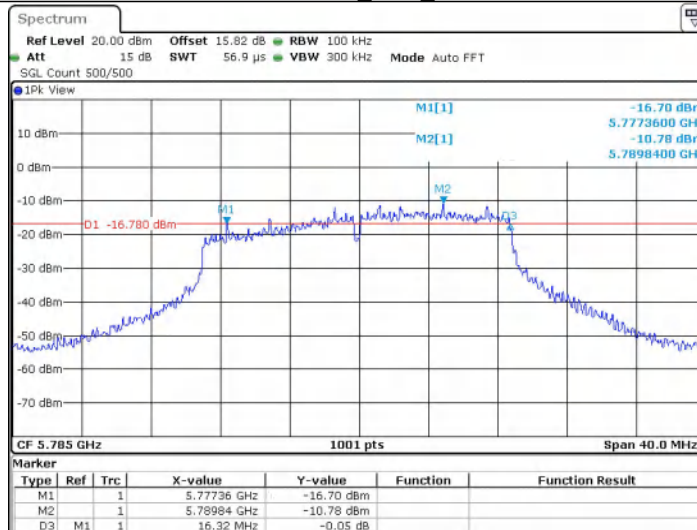
Date: 17 JUN 2025 20:22:20

### 11N20SISO\_Ant1\_5745



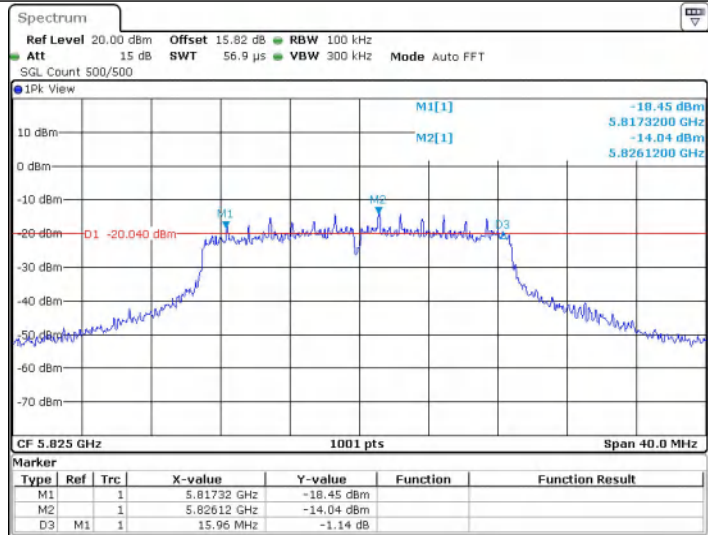
Date: 17 JUN 2025 20:28:35

### 11N20SISO\_Ant1\_5785



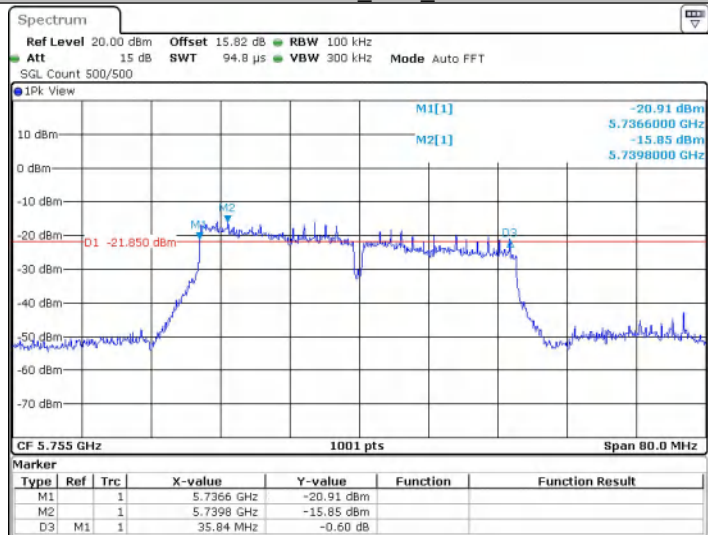
Date: 17 JUN 2025 20:27:08

11N20SISO\_Ant1\_5825



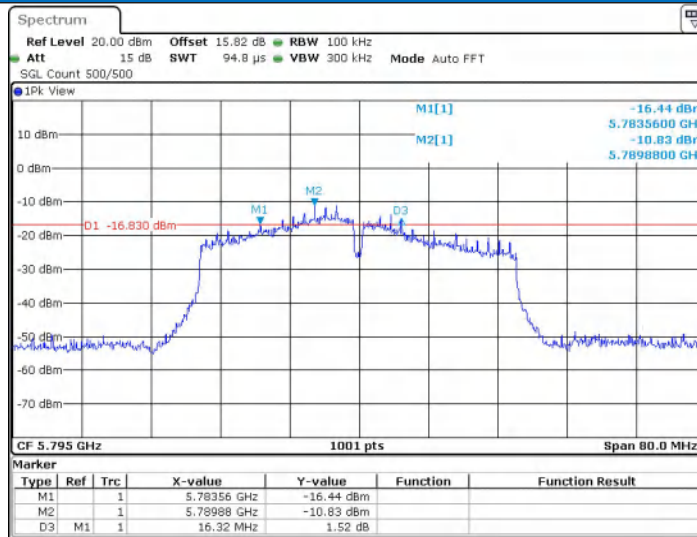
Date: 17 JUN 2025 20:27:52

11N40SISO\_Ant1\_5755



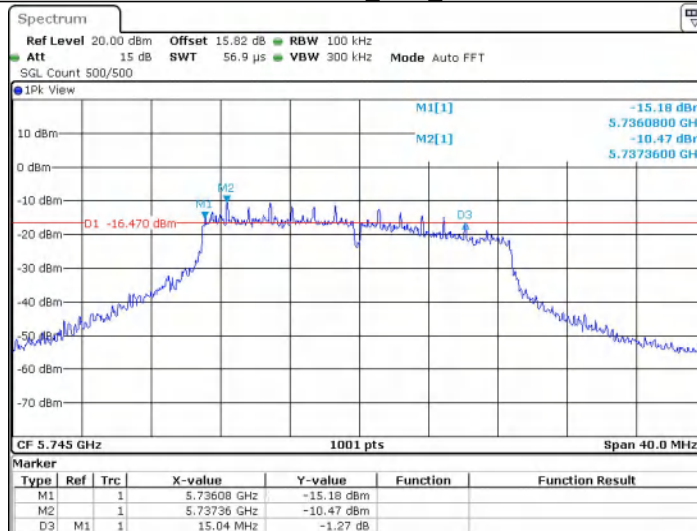
Date: 17 JUN 2025 20:31:10

11N40SISO\_Ant1\_5795



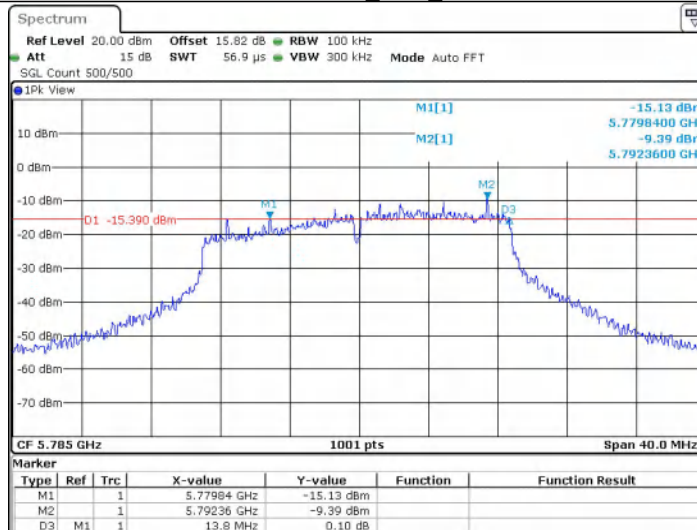
Date: 17 JUN 2025 20:32:34

### 11AC20SISO\_Ant1\_5745



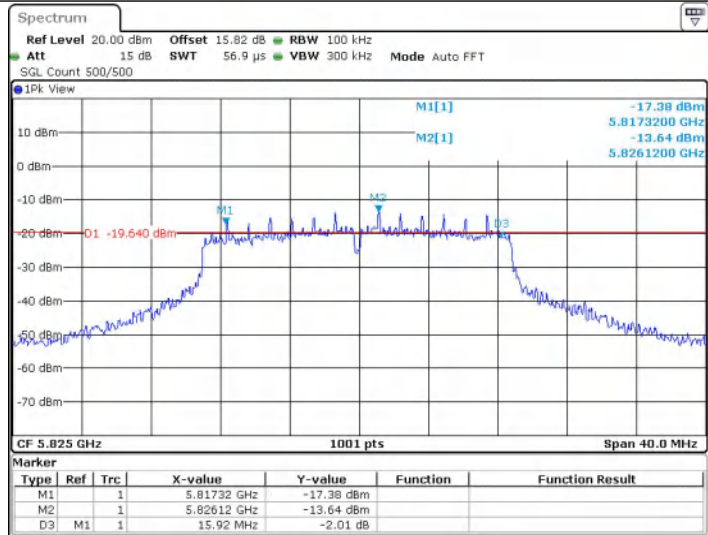
Date: 17 JUN 2025 20:39:22

### 11AC20SISO\_Ant1\_5785



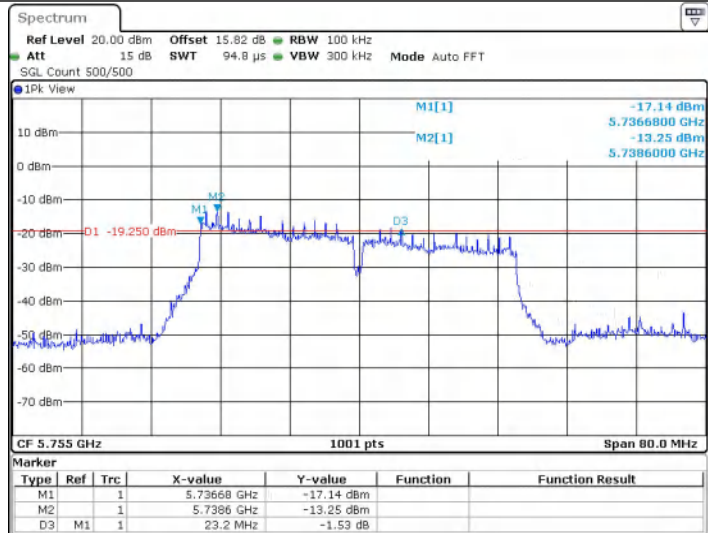
Date: 17 JUN 2025 20:41:07

11AC20SISO\_Ant1\_5825



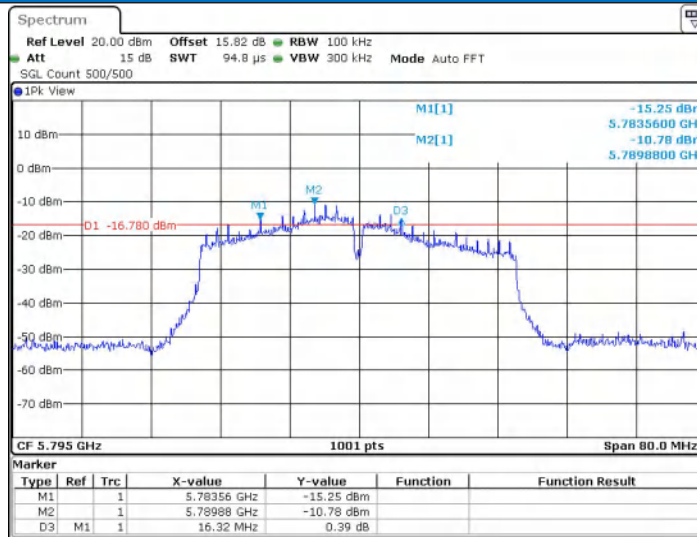
Date: 17 JUN 2025 20:41:40

11AC40SISO\_Ant1\_5755



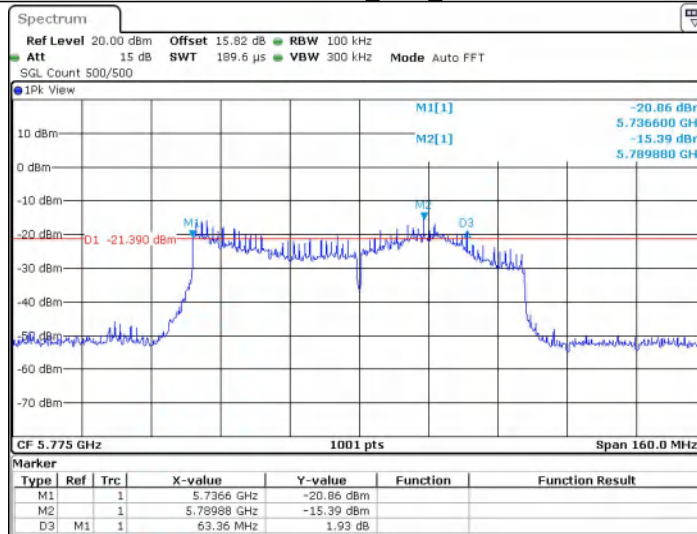
Date: 17 JUN 2025 20:43:51

11AC40SISO\_Ant1\_5795



Date: 17 JUN 2025 20:44:36

### 11AC80SISO\_Ant1\_5775



Date: 17 JUN 2025 20:47:42

## Appendix B): Maximum Conduct Output Power

### 1.Duty Cycle (x)

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

### Test Procedure:

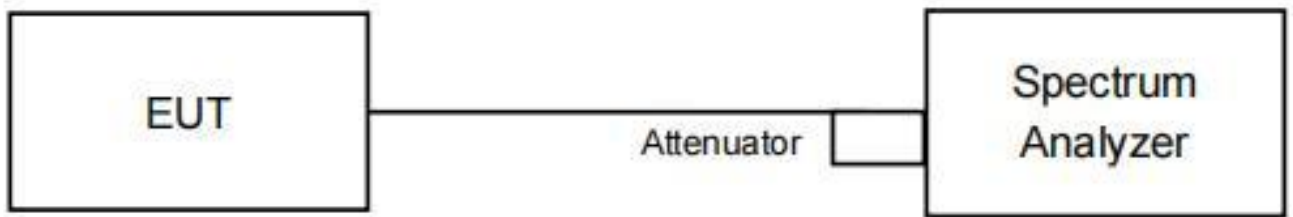
Set RBW = 20MHz

Set VBW = 40MHz

Set detector = peak.

Set span =0Hz

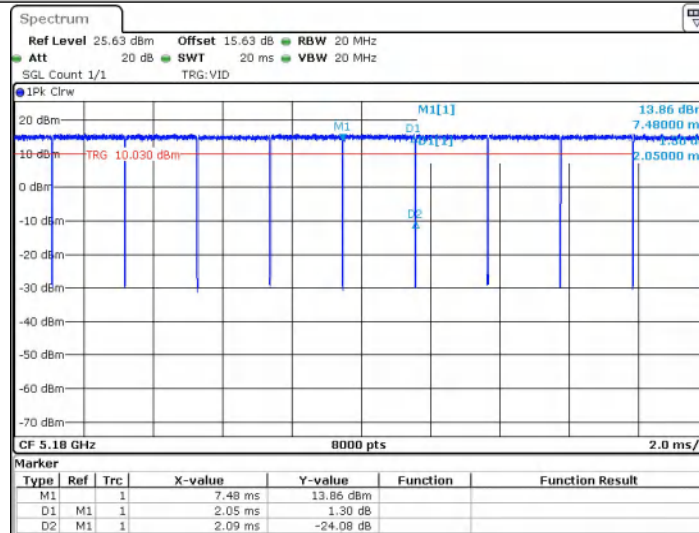
## Test Setup Diagram



## Measurement Data

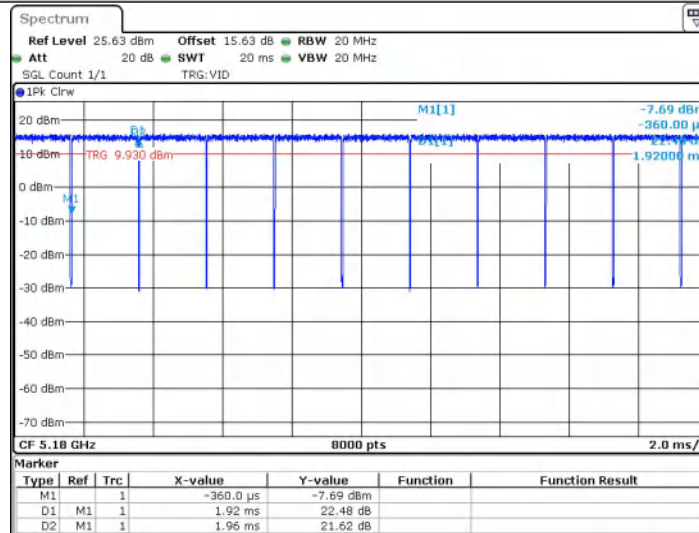
| Test Mode | Antenna | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|---------|---------------|-----------------------|
| 11A       | Ant1    | 98.09         | /                     |
| 11N20     | Ant1    | 97.96         | 0.09                  |
| 11N40     | Ant1    | 95.92         | 0.18                  |
| 11AC20    | Ant1    | 98.46         | /                     |
| 11AC40    | Ant1    | 95.92         | 0.18                  |
| 11AC80    | Ant1    | 92.00         | 0.36                  |

11A



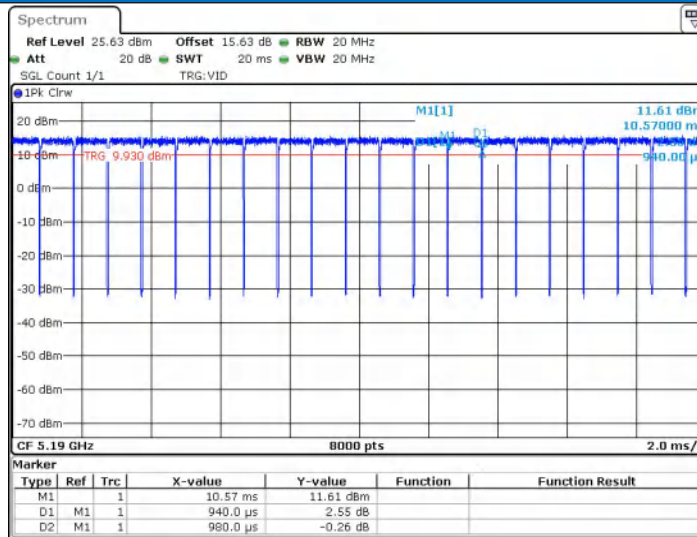
Date: 30.MAY.2025 17:33:17

11N20



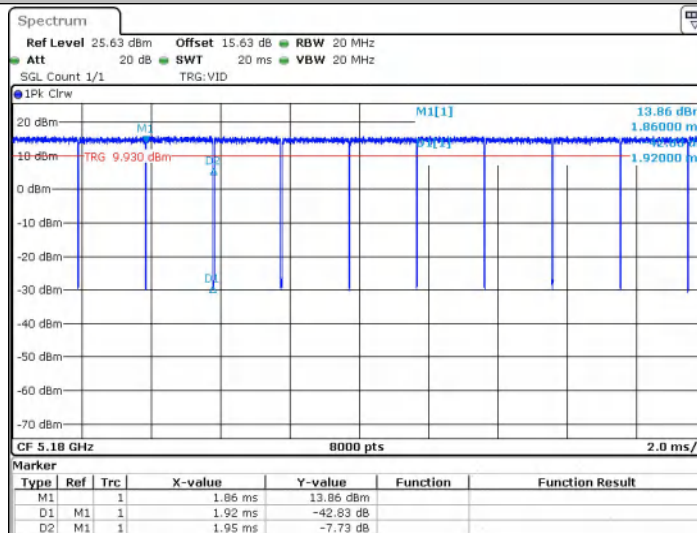
Date: 30.MAY.2025 18:02:09

11N40



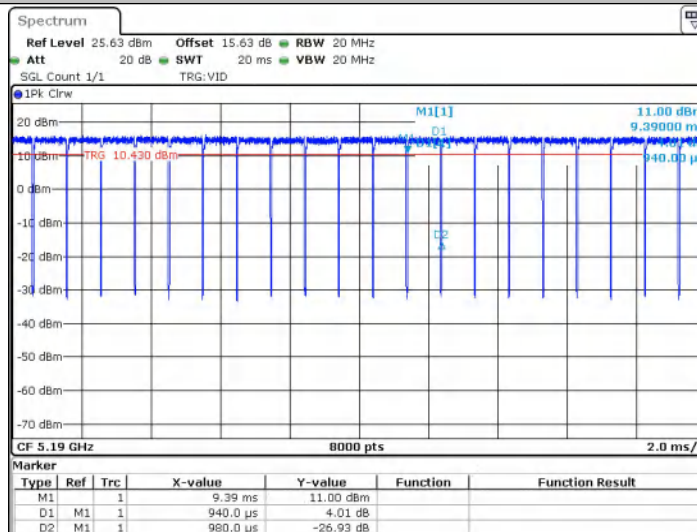
Date: 30 MAY 2025 18:19:01

### 11AC20

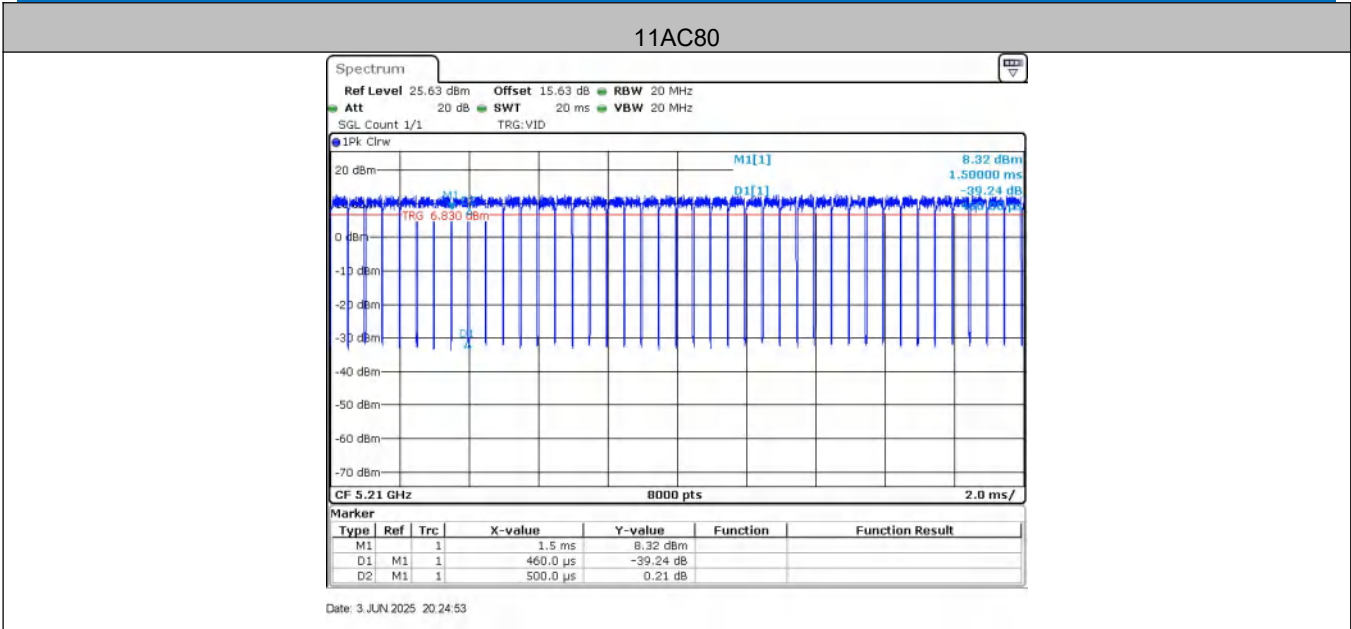


Date: 30 MAY 2025 18:48:10

### 11AC40



Date: 30 MAY 2025 19:34:49



## 2. Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

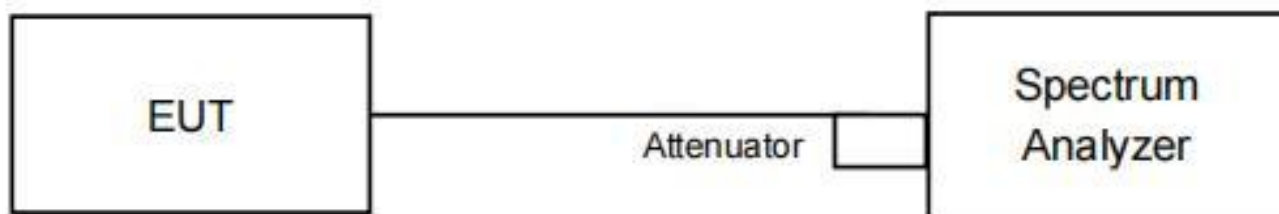
| Frequency band(MHz) | Limit                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5150-5250           | $\leq 1\text{W}(30\text{dBm})$ for master device                                                                                                                                                                                        |
|                     | $\leq 250\text{mW}(24\text{dBm})$ for client device                                                                                                                                                                                     |
| 5250-5350           | $\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$                                                                                                                                                        |
| 5470-5725           | $\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$                                                                                                                                                        |
| 5725-5850           | $\leq 1\text{W}(30\text{dBm})$                                                                                                                                                                                                          |
| Remark:             | <p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p> |

## Test Procedure:

**Method SA-2** (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (1) Set RBW = 1 MHz.
- (2) Set VBW  $\geq 3$  MHz.
- (3) Detector = power average
- (4) Sweep time = auto.
- (5) Add duty cycle to the measured average power.

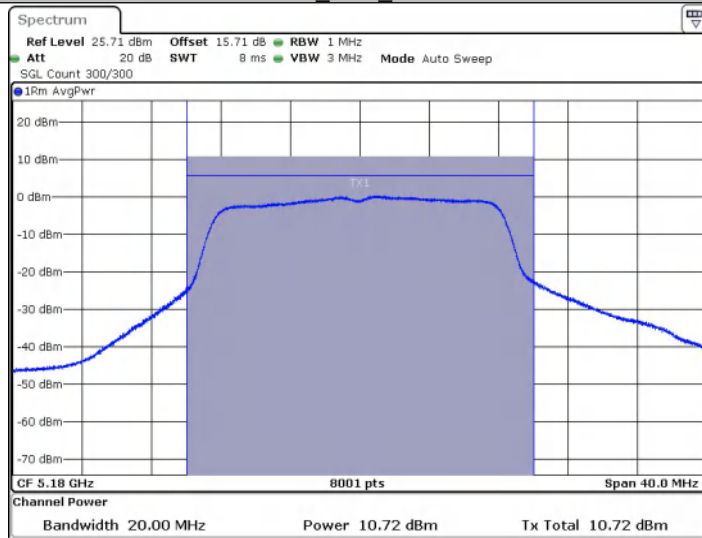
## Test Setup Diagram



Measurement Data

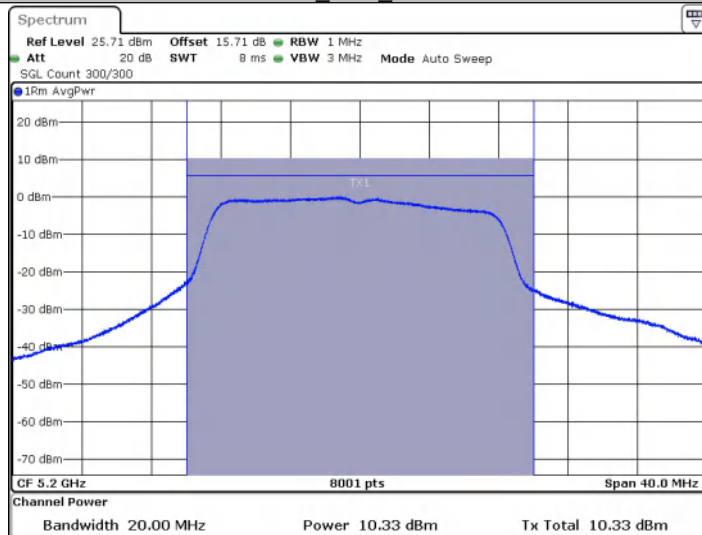
| Test Mode  | Antenna | Freq(MHz) | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|-----------|--------------|-------------|---------|
| 11A        | Ant1    | 5180      | 10.72        | ≤23.98      | PASS    |
|            |         | 5200      | 10.33        | ≤23.98      | PASS    |
|            |         | 5240      | 11.11        | ≤23.98      | PASS    |
|            |         | 5745      | 4.82         | ≤30.00      | PASS    |
|            |         | 5785      | 5.04         | ≤30.00      | PASS    |
|            |         | 5825      | -3.26        | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 5180      | 10.60        | ≤23.98      | PASS    |
|            |         | 5200      | 10.15        | ≤23.98      | PASS    |
|            |         | 5240      | 11.01        | ≤23.98      | PASS    |
|            |         | 5745      | -0.27        | ≤30.00      | PASS    |
|            |         | 5785      | -0.11        | ≤30.00      | PASS    |
|            |         | 5825      | -3.53        | ≤30.00      | PASS    |
| 11N40SISO  | Ant1    | 5190      | 10.47        | ≤23.98      | PASS    |
|            |         | 5230      | 9.92         | ≤23.98      | PASS    |
|            |         | 5755      | 3.40         | ≤30.00      | PASS    |
|            |         | 5795      | 5.04         | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5180      | 10.50        | ≤23.98      | PASS    |
|            |         | 5200      | 10.12        | ≤23.98      | PASS    |
|            |         | 5240      | 10.98        | ≤23.98      | PASS    |
|            |         | 5745      | 4.86         | ≤30.00      | PASS    |
|            |         | 5785      | 4.97         | ≤30.00      | PASS    |
|            |         | 5825      | -3.34        | ≤30.00      | PASS    |
| 11AC40SISO | Ant1    | 5190      | 10.99        | ≤23.98      | PASS    |
|            |         | 5230      | 9.31         | ≤23.98      | PASS    |
|            |         | 5755      | 3.43         | ≤30.00      | PASS    |
| 11AC80SISO | Ant1    | 5210      | 6.14         | ≤23.98      | PASS    |
|            |         | 5775      | -1.04        | ≤30.00      | PASS    |

11A\_Ant1\_5180



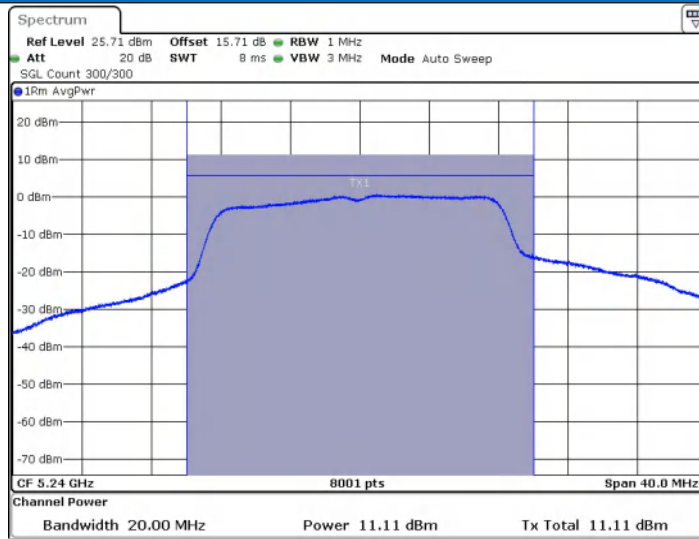
Date: 30 MAY 2025 17:33:27

11A\_Ant1\_5200



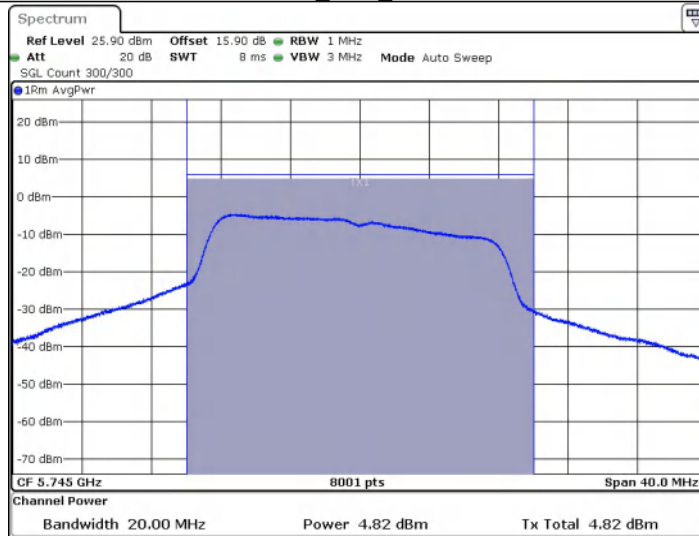
Date: 30 MAY 2025 17:36:04

11A\_Ant1\_5240



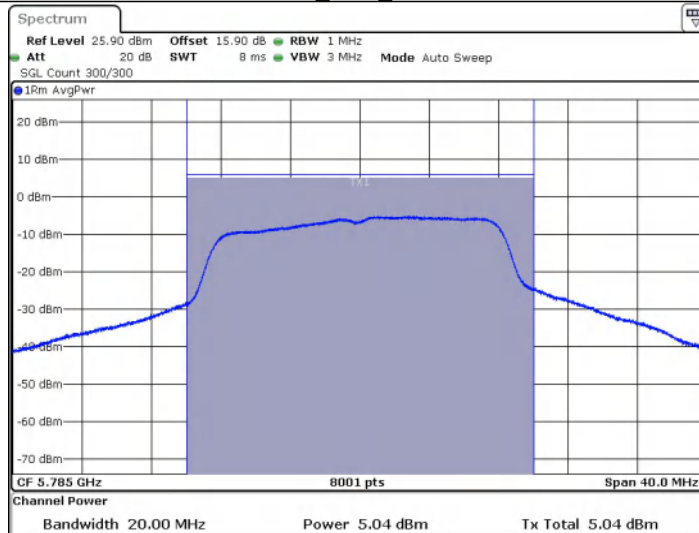
Date: 30 MAY 2025 17:39:52

### 11A\_Ant1\_5745



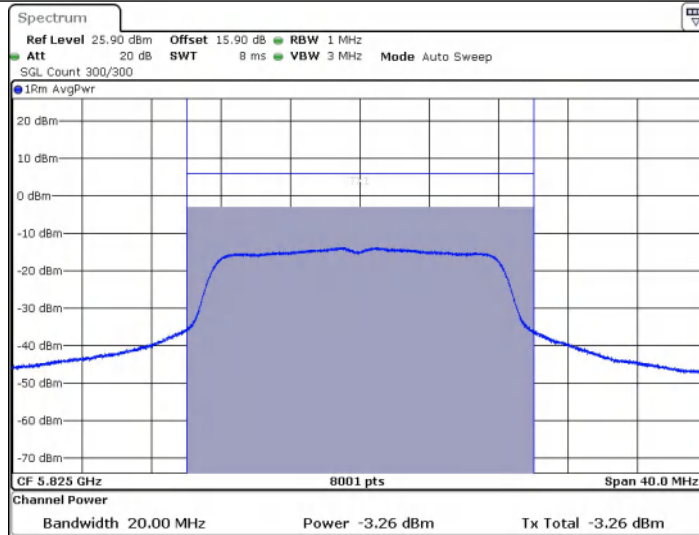
Date: 30 MAY 2025 17:43:32

### 11A\_Ant1\_5785



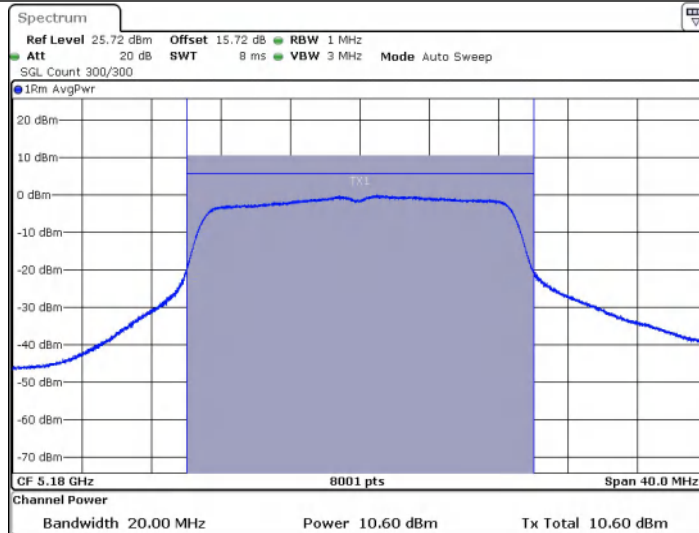
Date: 30 MAY 2025 17:49:08

11A\_Ant1\_5825



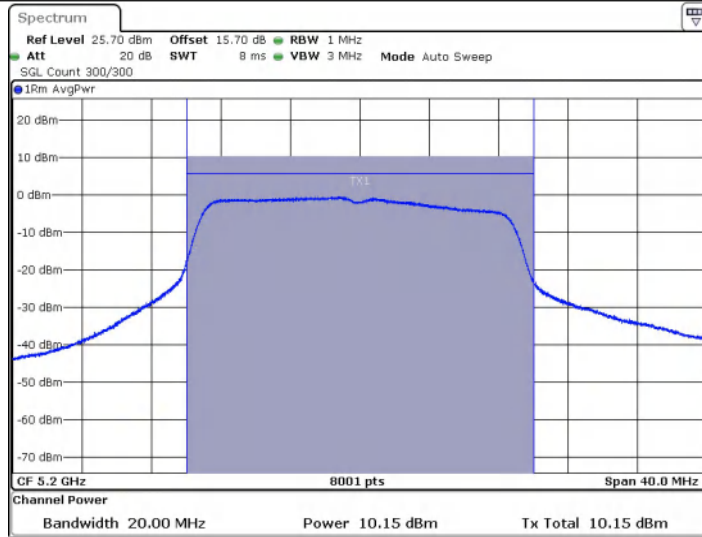
Date: 30 MAY 2025 17:50:39

11N20SISO\_Ant1\_5180



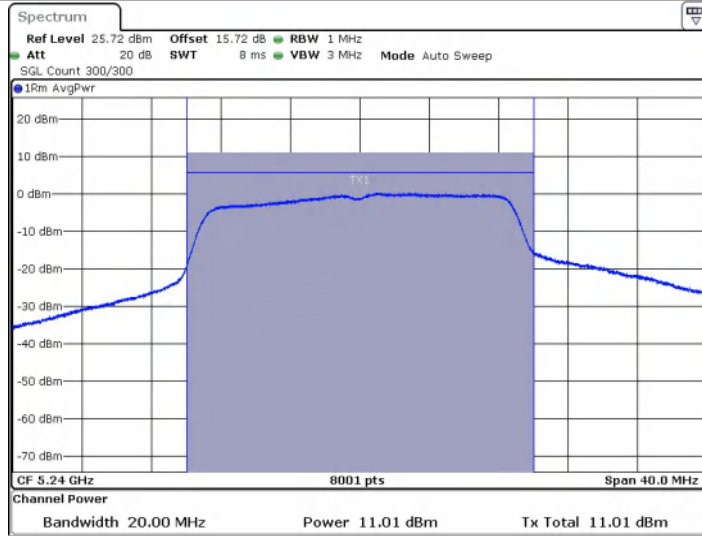
Date: 30 MAY 2025 18:02:19

11N20SISO\_Ant1\_5200



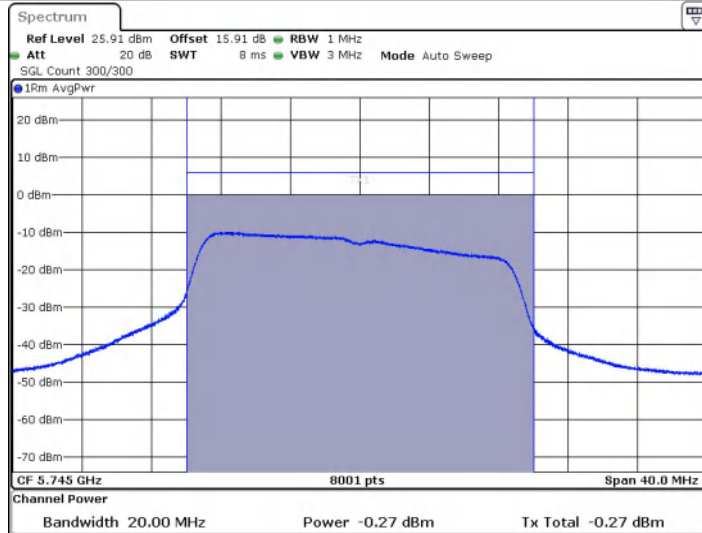
Date: 30 MAY 2025 18:04:59

### 11N20SISO Ant1\_5240



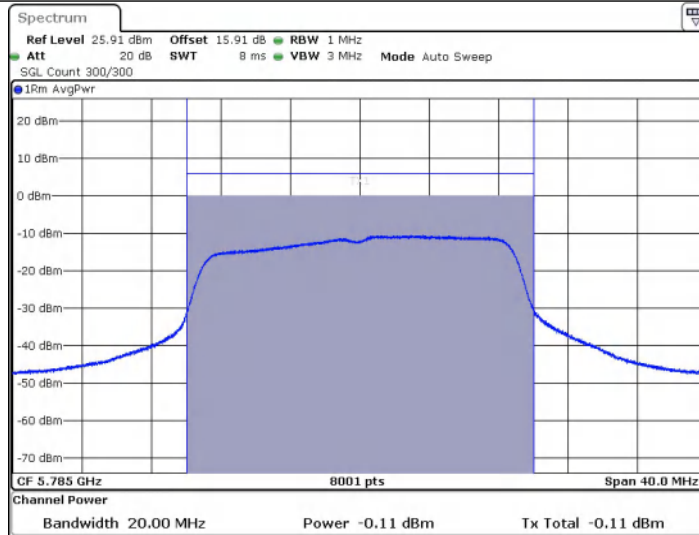
Date: 30 MAY 2025 18:06:45

### 11N20SISO Ant1\_5745



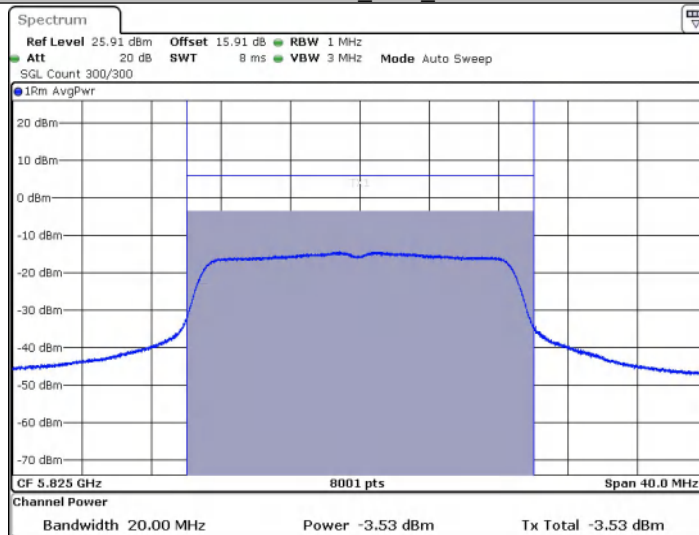
Date: 30 MAY 2025 18:09:10

11N20SISO\_Ant1\_5785



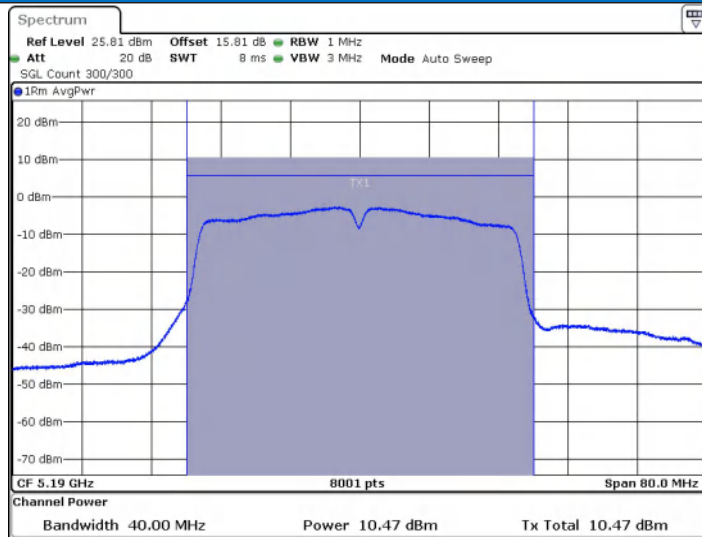
Date: 30.MAY.2025 18:11:57

11N20SISO\_Ant1\_5825



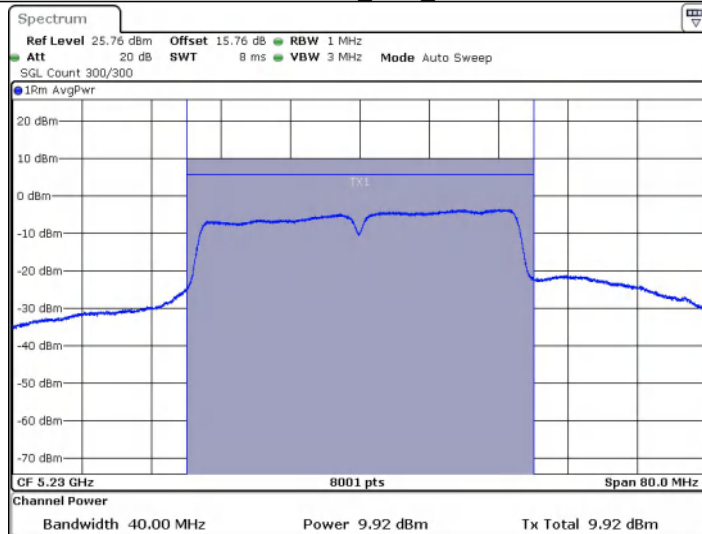
Date: 30.MAY.2025 18:14:42

11N40SISO\_Ant1\_5190



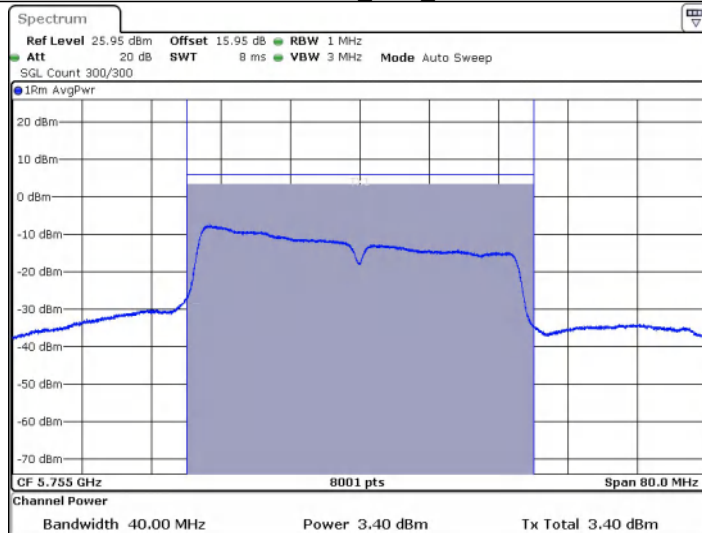
Date: 30 MAY 2025 18:19:10

### 11N40SISO\_Ant1\_5230



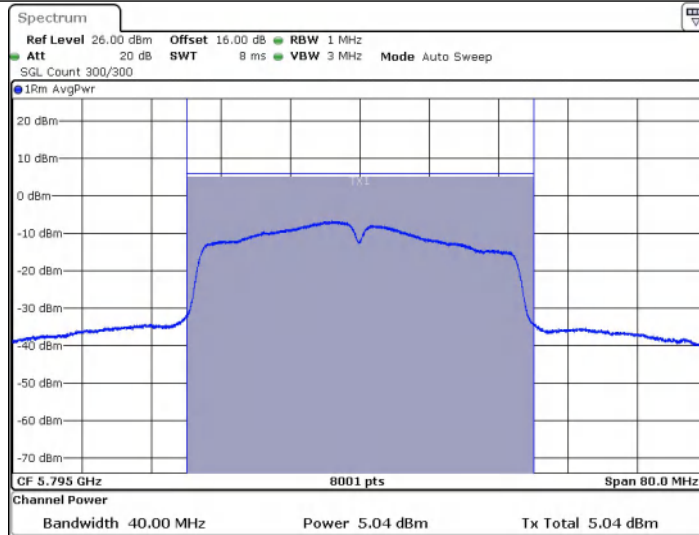
Date: 30 MAY 2025 18:23:03

### 11N40SISO\_Ant1\_5755



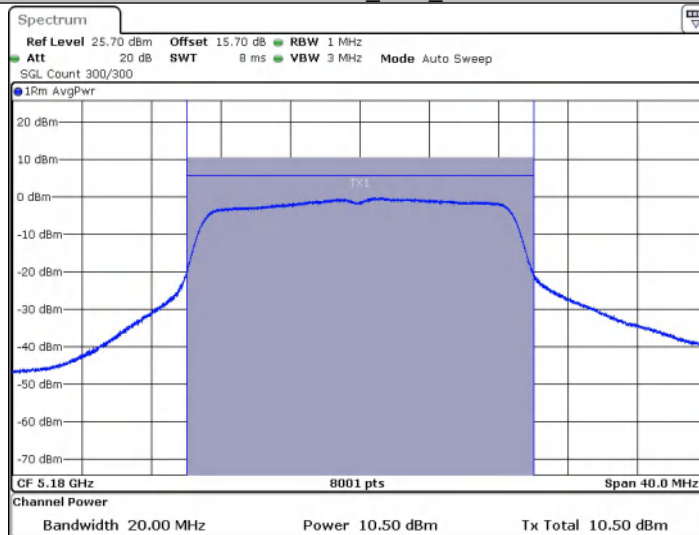
Date: 30 MAY 2025 18:39:18

11N40SISO\_Ant1\_5795



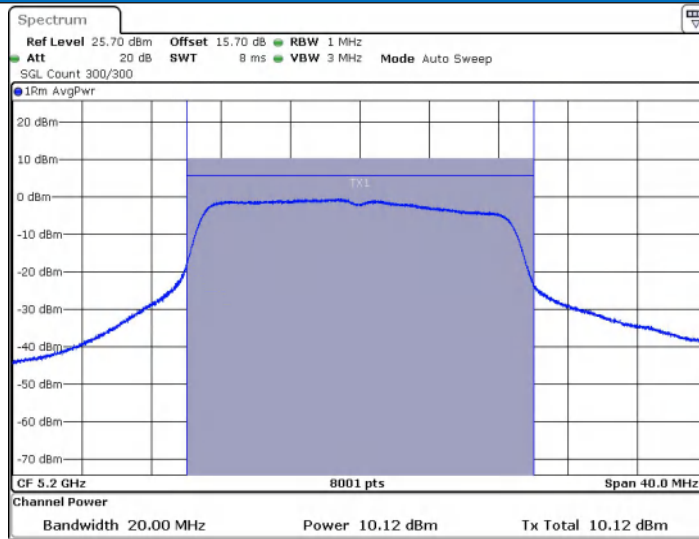
Date: 30.MAY.2025 18:44:56

11AC20SISO\_Ant1\_5180



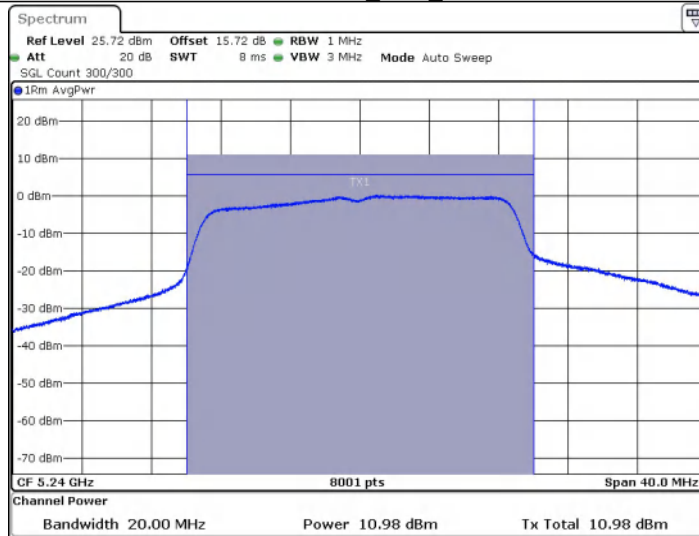
Date: 30.MAY.2025 18:48:20

11AC20SISO\_Ant1\_5200



Date: 30 MAY 2025 18:53:35

### 11AC20SISO\_Ant1\_5240



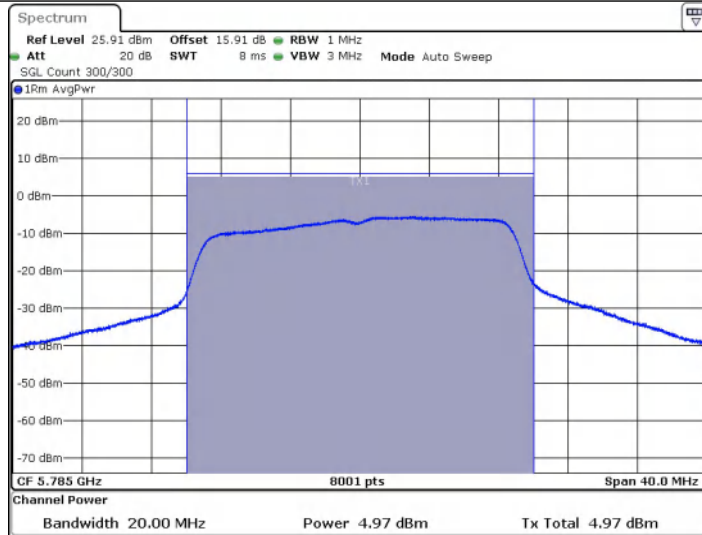
Date: 30 MAY 2025 18:55:49

### 11AC20SISO\_Ant1\_5745

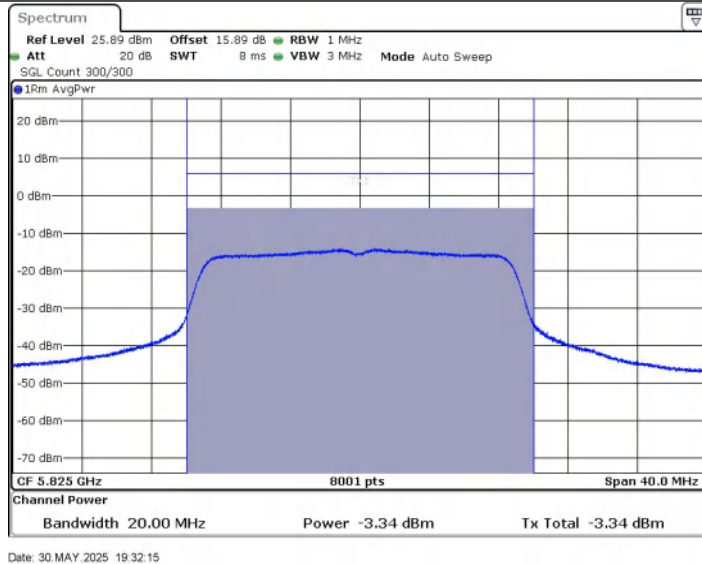


Date: 30 MAY 2025 19:28:12

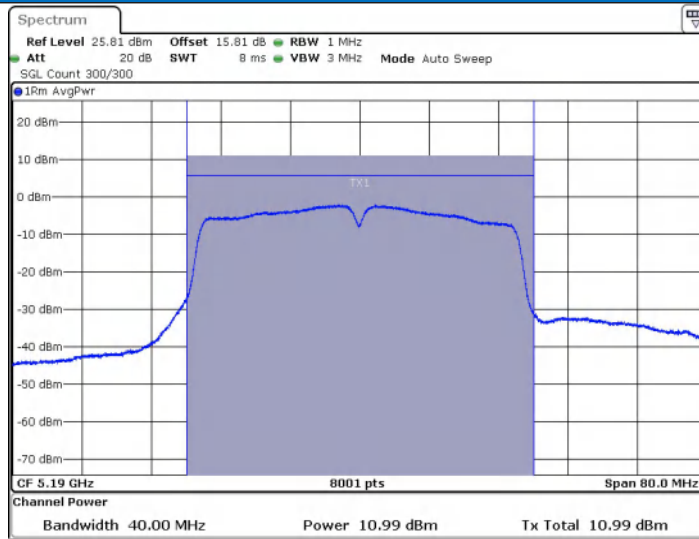
11AC20SISO\_Ant1\_5785



11AC20SISO\_Ant1\_5825

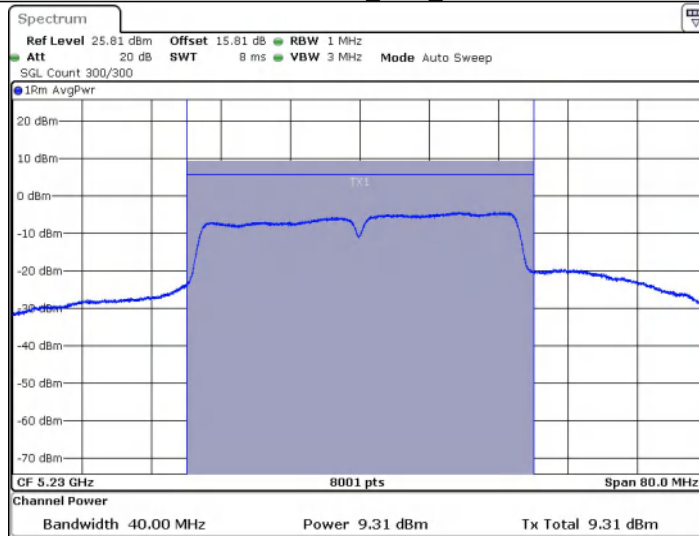


11AC40SISO\_Ant1\_5190



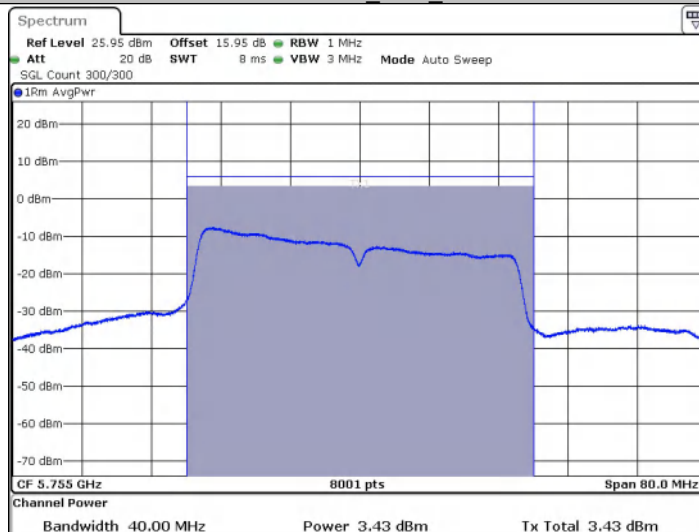
Date: 30 MAY 2025 19:34:59

11AC40SISO\_Ant1\_5230



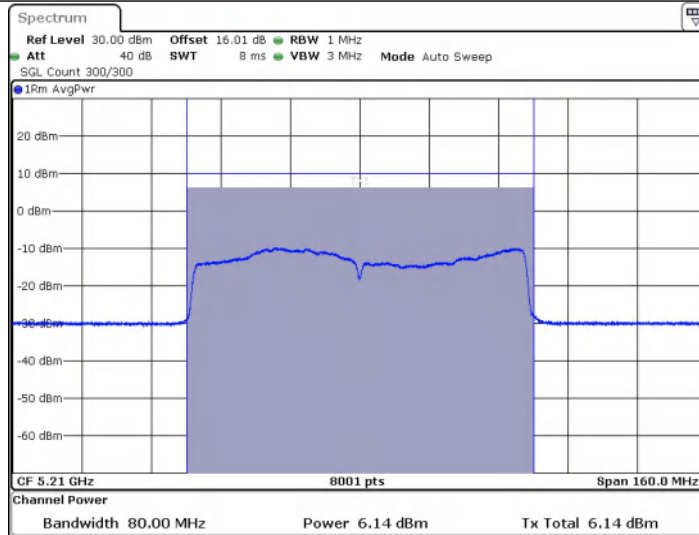
Date: 3 JUN 2025 15:32:54

11AC40SISO\_Ant1\_5755



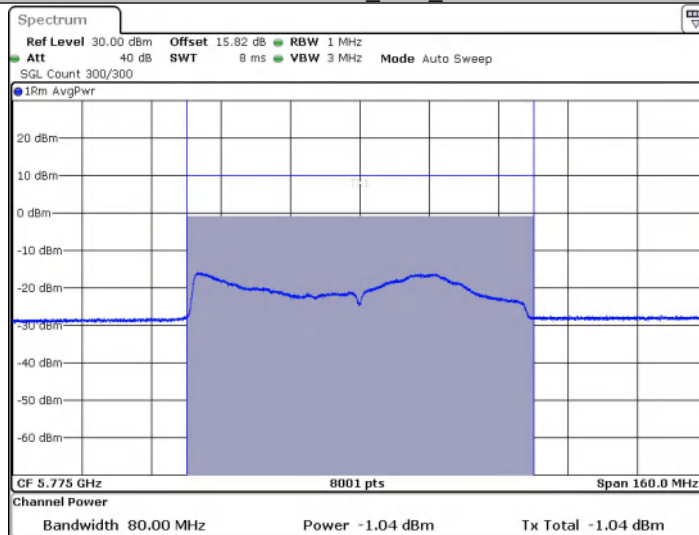
Date: 30 MAY 2025 19:39:13

11AC80SISO\_Ant1\_5210



Date: 20 JUN 2025 18:38:41

11AC80SISO\_Ant1\_5775



Date: 20 JUN 2025 18:39:27

Remark:

$Av.Power = Meas.Level + 10 \log(1/duty\ cycle)$

$E.i.r.p = Av.Power + G$ ,

G = antenna gain in dBi.

## Appendix C): Maximum Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

### Test Procedure:

#### For 5150-5725MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 1MHz.
4. Set the VBW  $\geq 3 \times$  RBW. Detector = Peak. Trace mode = max hold.

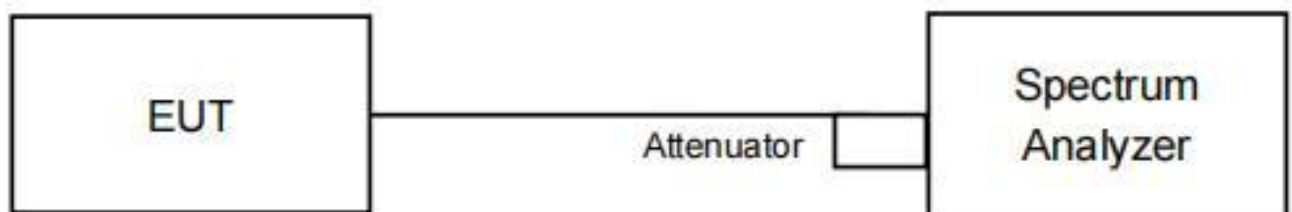
#### For 5725-5850MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 500KHz.
4. Set the VBW  $\geq 3 \times$  RBW. Detector = Peak. Trace mode = max hold.

Limit:

| Frequency band(MHz) | Limit                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5150-5250           | $\leq 17\text{dBm}$ in 1MHz for master device                                                                                                            |
|                     | $\leq 11\text{dBm}$ in 1MHz for client device                                                                                                            |
| 5250-5350           | $\leq 11\text{dBm}$ in 1MHz for client device                                                                                                            |
| 5470-5725           | $\leq 11\text{dBm}$ in 1MHz for client device                                                                                                            |
| 5725-5850           | $\leq 30\text{dBm}$ in 500 kHz                                                                                                                           |
| Remark:             | The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. |

### Test Setup Diagram



Result Table

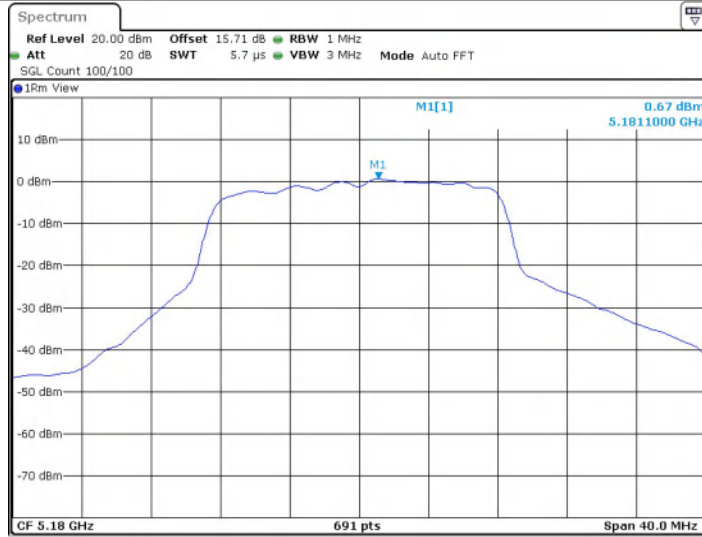
| TestMode   | Freq(MHz) | Result [dBm/MHz]    | Limit[dBm/MHz]    | Verdict |
|------------|-----------|---------------------|-------------------|---------|
| 11A        | 5180      | 0.67                | ≤11.00            | PASS    |
|            | 5200      | 0.55                | ≤11.00            | PASS    |
|            | 5240      | 0.84                | ≤11.00            | PASS    |
|            | Freq(MHz) | Result [dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|            | 5745      | -7.73               | ≤30.00            | PASS    |
|            | 5785      | -8.01               | ≤30.00            | PASS    |
|            | 5825      | -16.70              | ≤30.00            | PASS    |
| 11N20SISO  | Freq(MHz) | Result [dBm/MHz]    | Limit[dBm/MHz]    | Verdict |
|            | 5180      | -0.42               | ≤11.00            | PASS    |
|            | 5200      | -0.41               | ≤11.00            | PASS    |
|            | 5240      | -0.31               | ≤11.00            | PASS    |
|            | Freq(MHz) | Result [dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|            | 5745      | -13.09              | ≤30.00            | PASS    |
|            | 5785      | -13.35              | ≤30.00            | PASS    |
|            | 5825      | -17.32              | ≤30.00            | PASS    |
| 11N40SISO  | Freq(MHz) | Result [dBm/MHz]    | Limit[dBm/MHz]    | Verdict |
|            | 5190      | -2.78               | ≤11.00            | PASS    |
|            | 5230      | -2.83               | ≤11.00            | PASS    |
|            | Freq(MHz) | Result [dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|            | 5755      | -10.65              | ≤30.00            | PASS    |
|            | 5795      | -9.71               | ≤30.00            | PASS    |
| 11AC20SISO | Freq(MHz) | Result [dBm/MHz]    | Limit[dBm/MHz]    | Verdict |
|            | 5180      | -0.32               | ≤11.00            | PASS    |
|            | 5200      | -0.42               | ≤11.00            | PASS    |
|            | 5240      | 0.36                | ≤11.00            | PASS    |
|            | Freq(MHz) | Result [dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|            | 5745      | -7.49               | ≤30.00            | PASS    |
|            | 5785      | -8.47               | ≤30.00            | PASS    |
|            | 5825      | -16.91              | ≤30.00            | PASS    |
| 11AC40SISO | Freq(MHz) | Result [dBm/MHz]    | Limit[dBm/MHz]    | Verdict |
|            | 5190      | -1.84               | ≤11.00            | PASS    |
|            | 5230      | -4.32               | ≤11.00            | PASS    |
|            | Freq(MHz) | Result [dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|            | 5755      | -16.49              | ≤30.00            | PASS    |
|            | 5795      | -14.27              | ≤30.00            | PASS    |

|            |           |                     |                   |         |
|------------|-----------|---------------------|-------------------|---------|
| 11AC80SISO | Freq(MHz) | Result [dBm/MHz]    | Limit[dBm/MHz]    | Verdict |
|            | 5210      | -6.38               | ≤11.00            | PASS    |
|            | Freq(MHz) | Result [dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|            | 5775      | -18.10              | ≤30.00            | PASS    |

**Remark:**

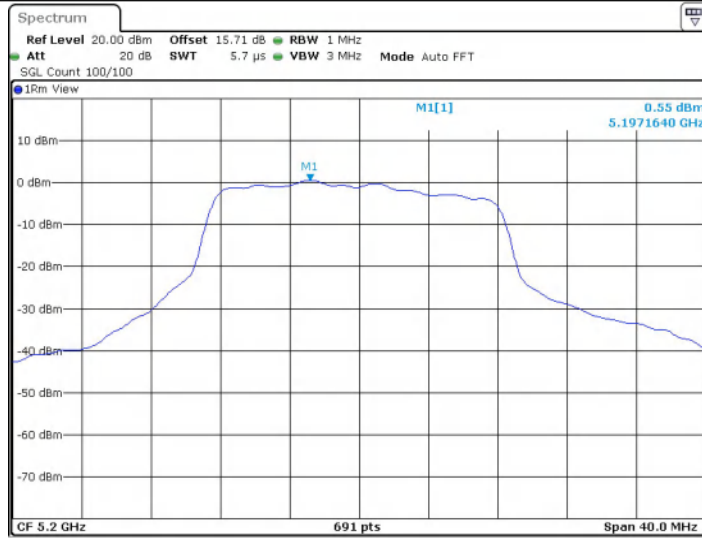
PSD = Meas PSD + Duty Cycle Factor

11A\_Ant1\_5180



Date: 30 MAY 2025 17:33:32

11A\_Ant1\_5200

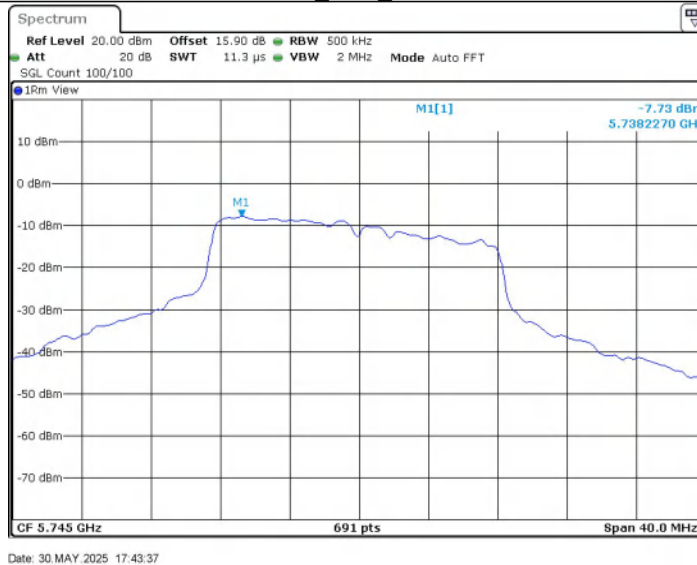


Date: 30 MAY 2025 17:36:09

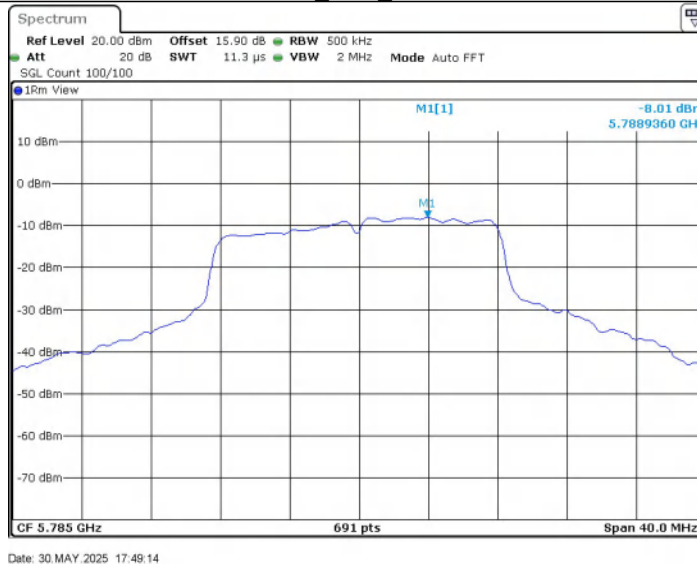
11A\_Ant1\_5240



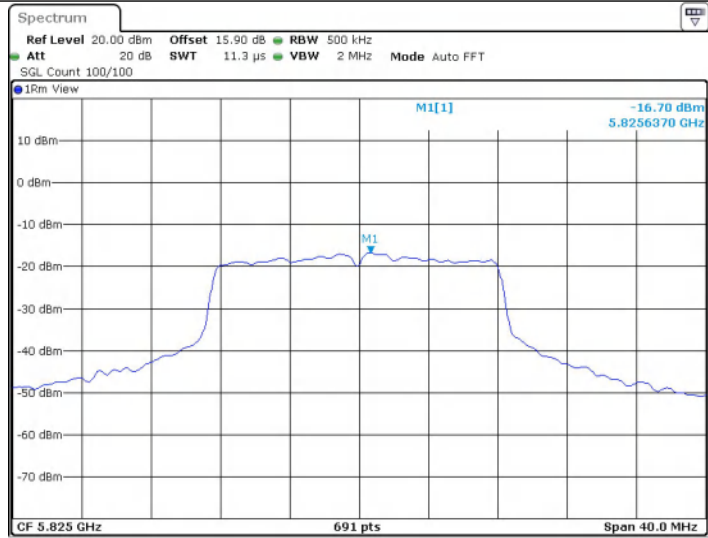
11A\_Ant1\_5745



11A\_Ant1\_5785

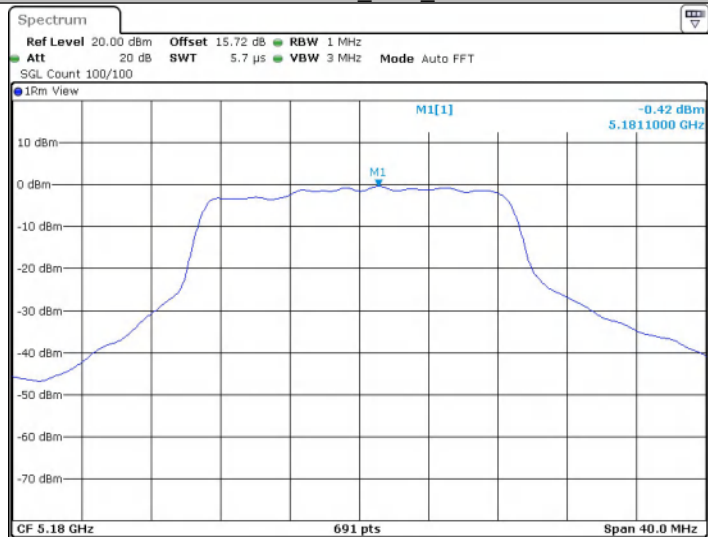


11A\_Ant1\_5825



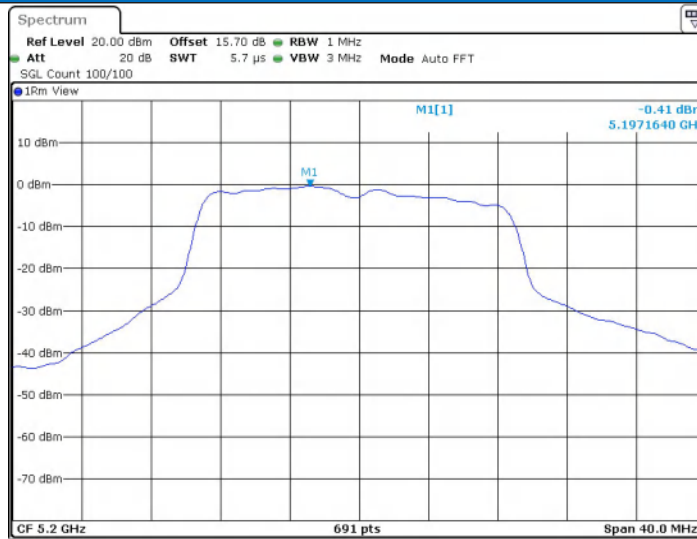
Date: 30.MAY.2025 17:50:44

11N20SISO\_Ant1\_5180



Date: 30.MAY.2025 18:02:24

11N20SISO\_Ant1\_5200



Date: 30.MAY.2025 18:05:05

11N20SISO\_Ant1\_5240



Date: 30.MAY.2025 18:06:50

11N20SISO\_Ant1\_5745



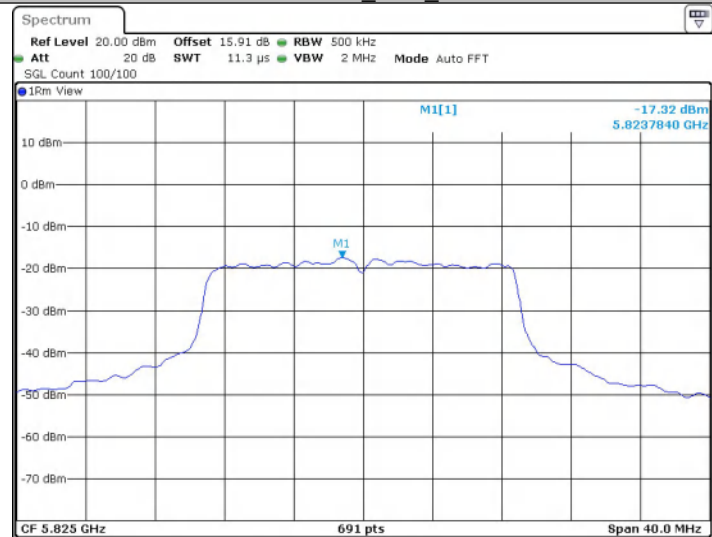
Date: 30.MAY.2025 18:09:16

11N20SISO\_Ant1\_5785



Date: 30.MAY.2025 18:12:03

11N20SISO\_Ant1\_5825

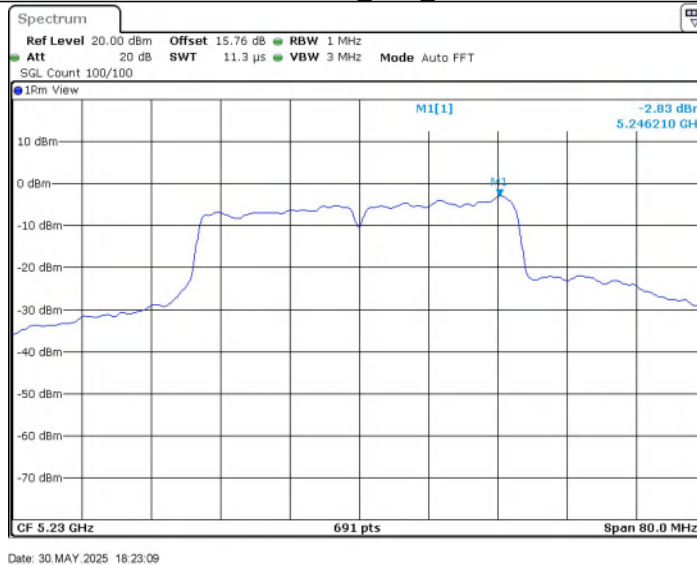


Date: 30.MAY.2025 18:14:48

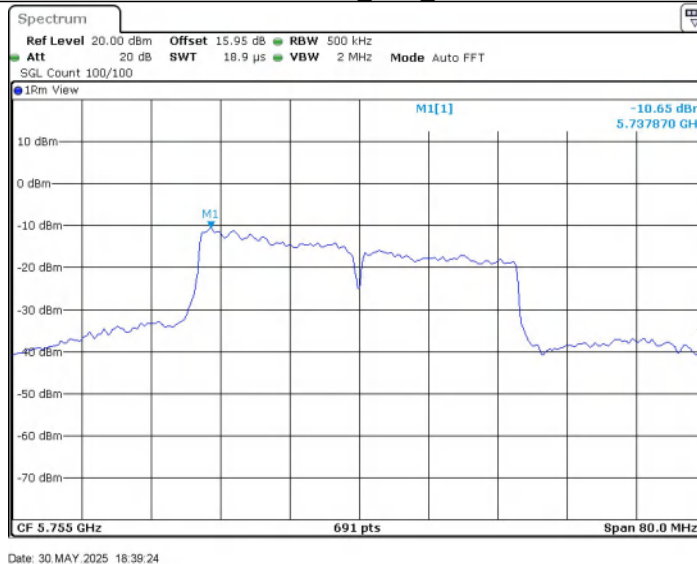
11N40SISO\_Ant1\_5190



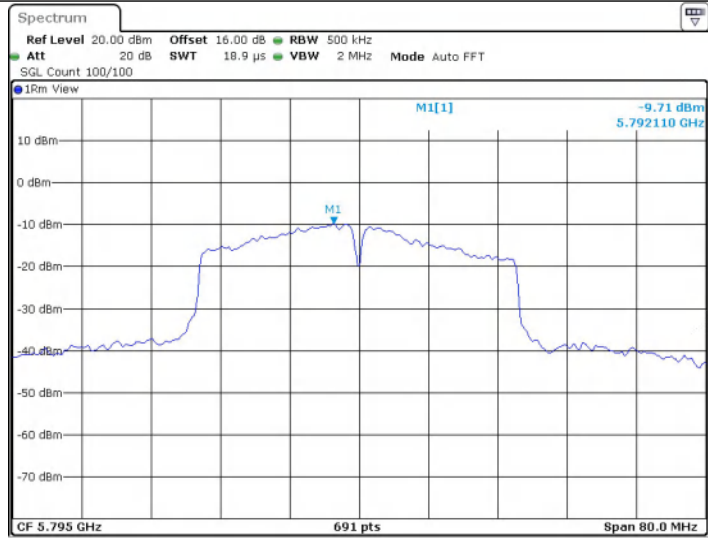
11N40SISO\_Ant1\_5230



11N40SISO\_Ant1\_5755

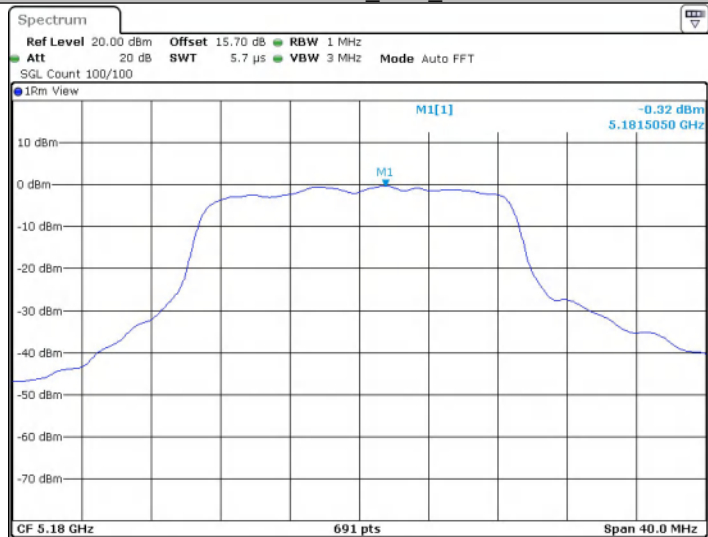


11N40SISO\_Ant1\_5795



Date: 30.MAY.2025 18:45:02

11AC20SISO\_Ant1\_5180



Date: 30.MAY.2025 18:48:26

11AC20SISO\_Ant1\_5200



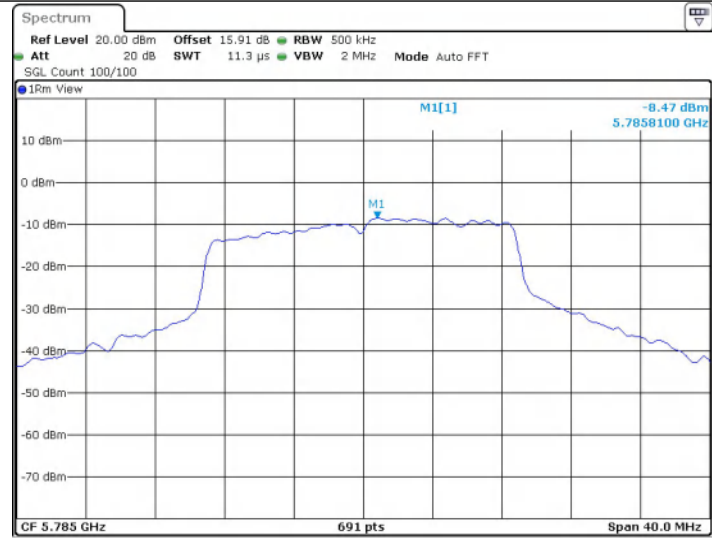
11AC20SISO\_Ant1\_5240



11AC20SISO\_Ant1\_5745

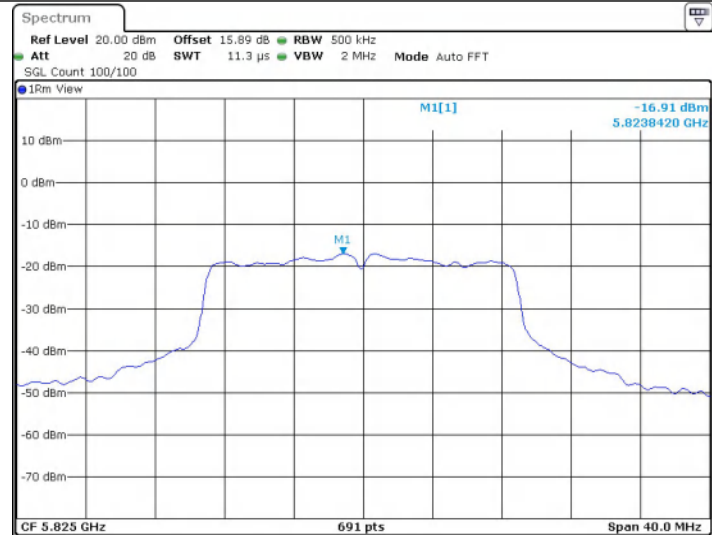


11AC20SISO\_Ant1\_5785



Date: 30.MAY.2025 19:30:33

11AC20SISO\_Ant1\_5825

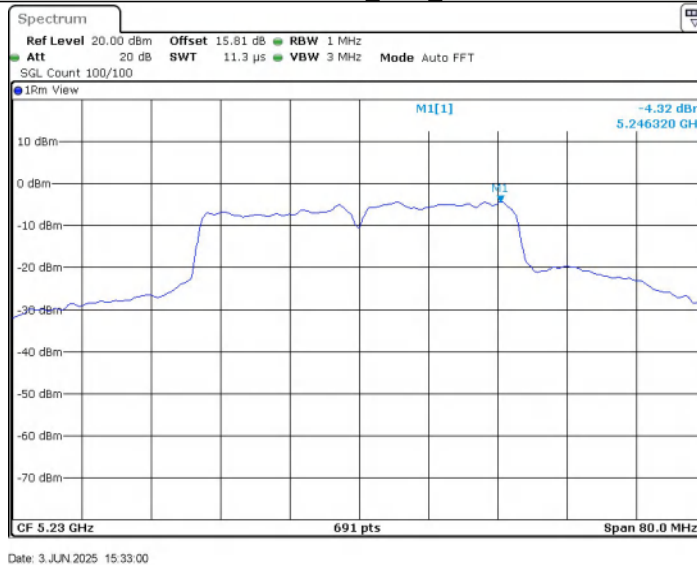


Date: 30.MAY.2025 19:32:21

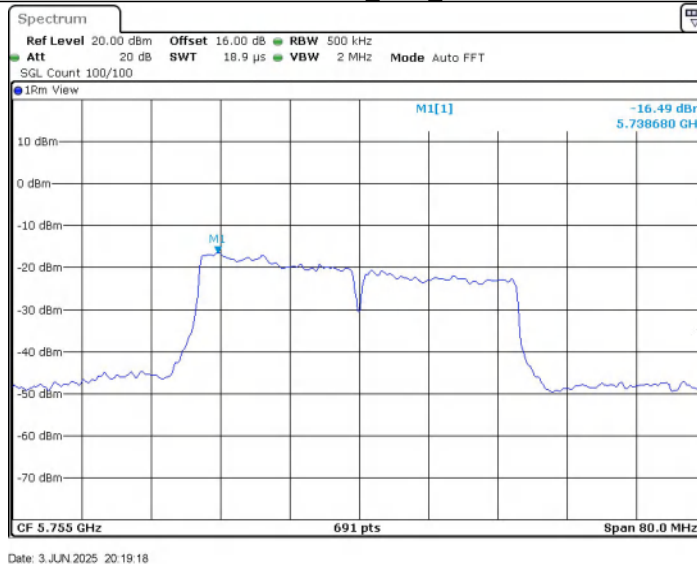
11AC40SISO\_Ant1\_5190



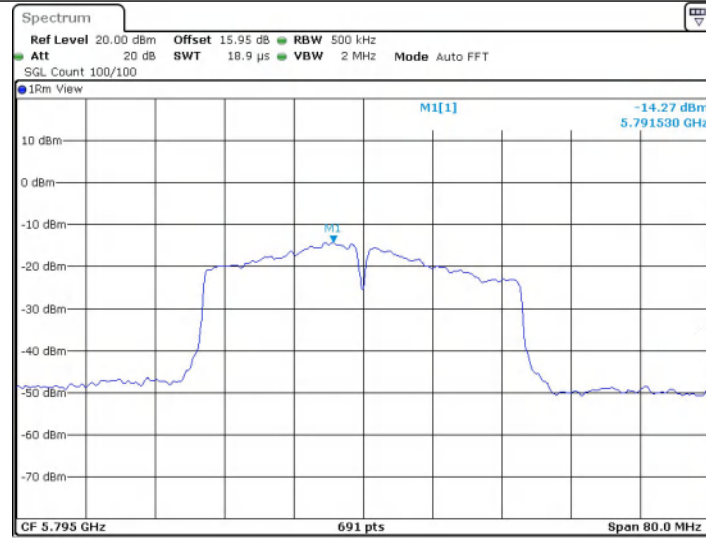
11AC40SISO\_Ant1\_5230



11AC40SISO\_Ant1\_5755

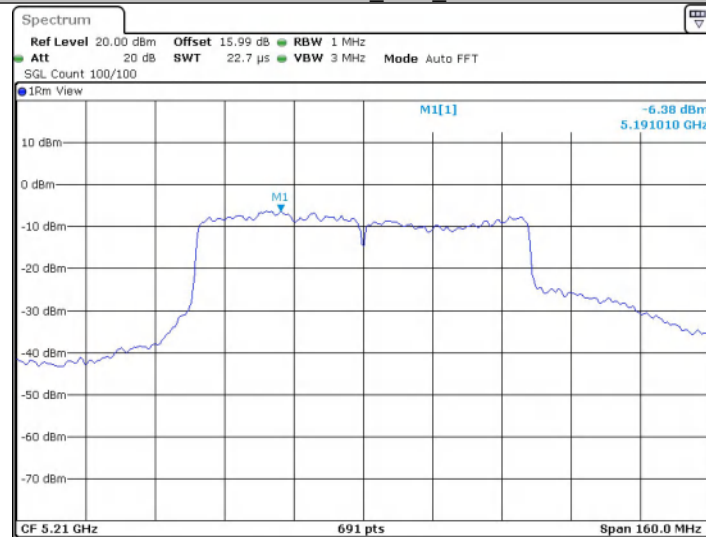


11AC40SISO\_Ant1\_5795



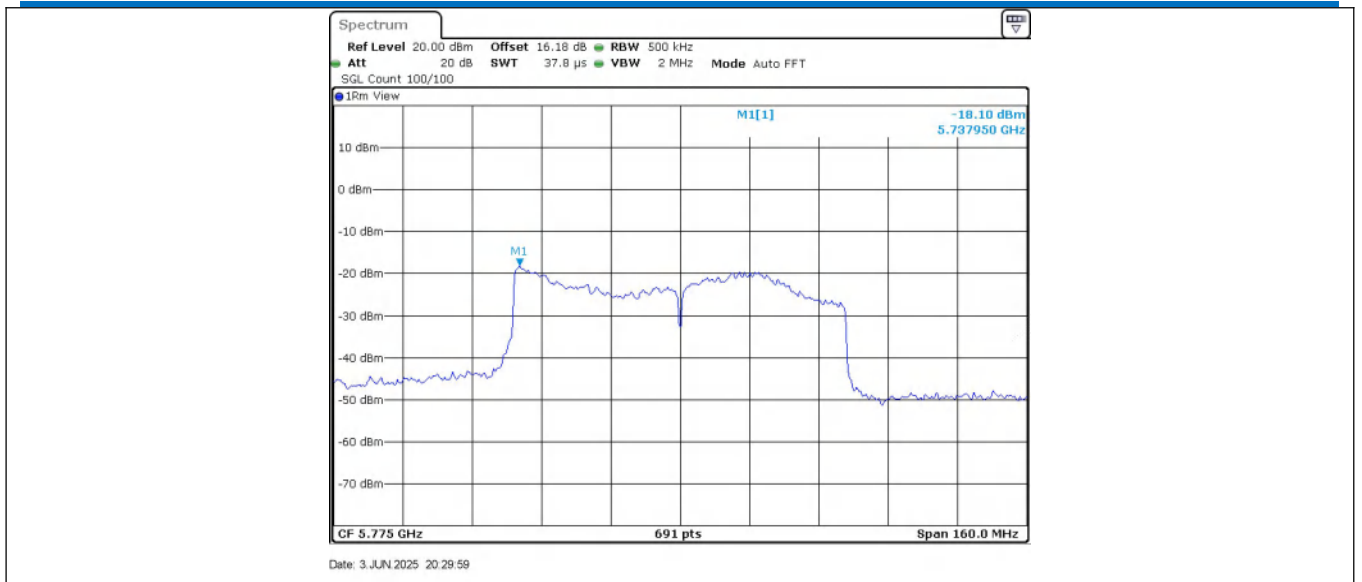
Date: 3 JUN 2025 20:21:34

11AC80SISO\_Ant1\_5210



Date: 3 JUN 2025 20:25:02

11AC80SISO\_Ant1\_5775



## Appendix D): Band Edge Measurements

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

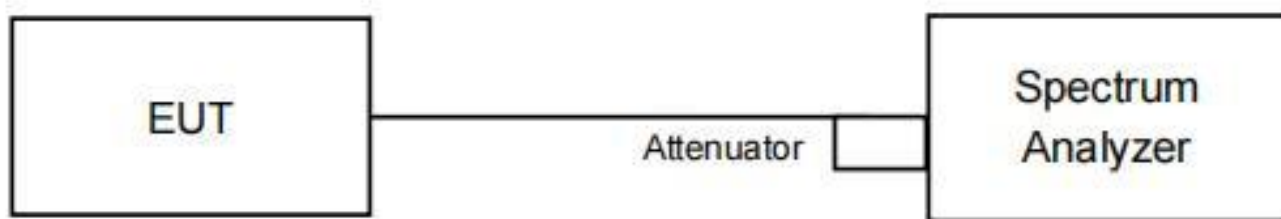
### Test Procedure:

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

### Limit:

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For transmitters operating in the 5.15-5.25 GHz band:  | All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).                                                                                                                                                                                                                                                                                                                                                                                  |
| For transmitters operating in the 5.25-5.35 GHz band:  | All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).                                                                                                                                                                                                                                                                                                                                                                                  |
| For transmitters operating in the 5.47-5.725 GHz band: | All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).                                                                                                                                                                                                                                                                                                                                                                                 |
| For transmitters operating in the 5.725-5.85 GHz band: | (i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge. |

## Test Setup Diagram



### 7.1.1 Test Result B1/2/3

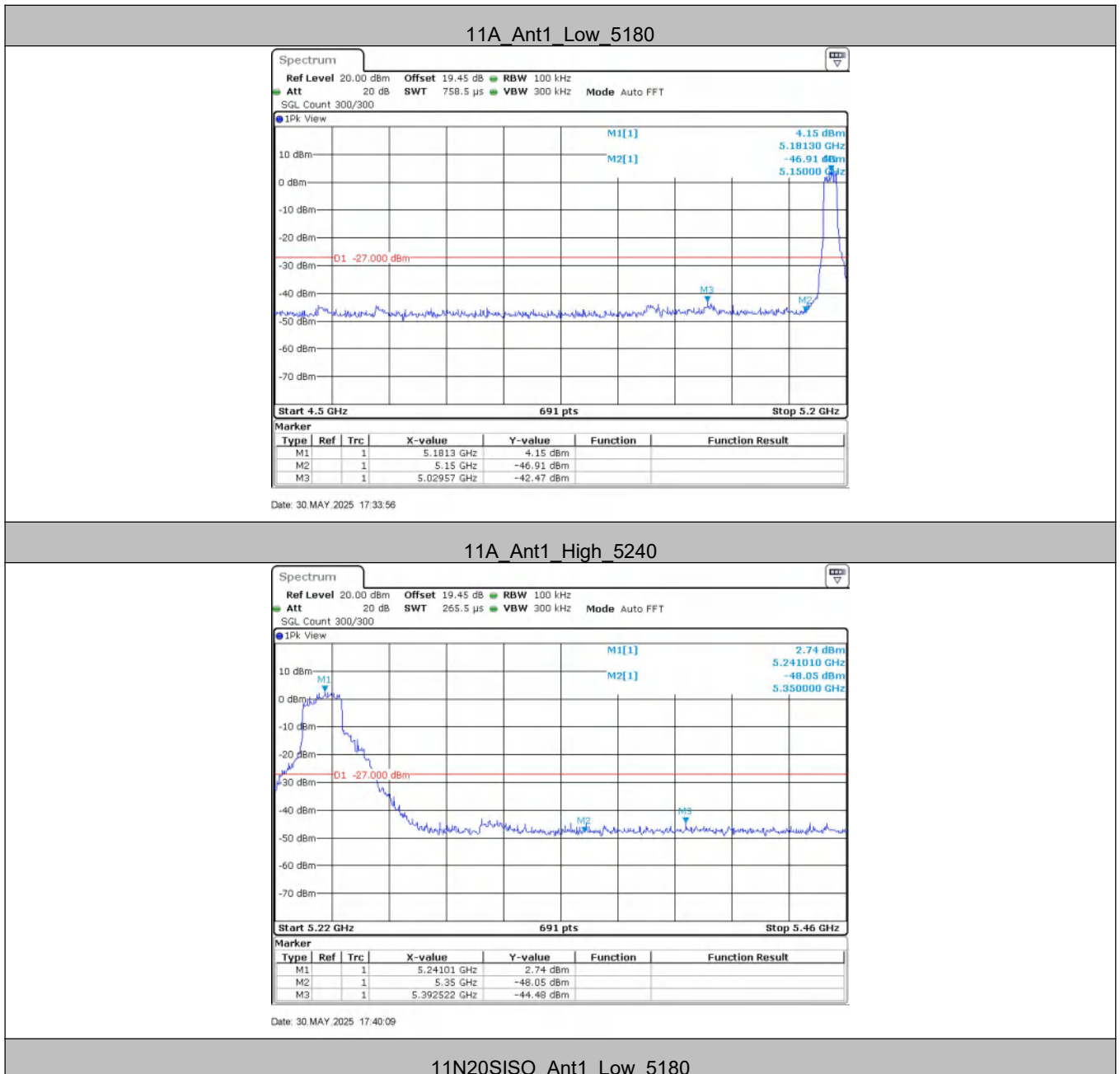
| TestMode   | ChName | Freq(MHz) | Result[dBm] | Limit[dBm] | Verdict |
|------------|--------|-----------|-------------|------------|---------|
| 11A        | Low    | 5180      | -42.47      | $\leq -27$ | PASS    |
|            | High   | 5240      | -44.48      | $\leq -27$ | PASS    |
| 11N20SISO  | Low    | 5180      | -43.73      | $\leq -27$ | PASS    |
|            | High   | 5240      | -44.87      | $\leq -27$ | PASS    |
| 11N40SISO  | Low    | 5190      | -42.05      | $\leq -27$ | PASS    |
|            | High   | 5230      | -45.03      | $\leq -27$ | PASS    |
| 11AC20SISO | Low    | 5180      | -43.64      | $\leq -27$ | PASS    |
|            | High   | 5240      | -45.24      | $\leq -27$ | PASS    |
| 11AC40SISO | Low    | 5190      | -40.88      | $\leq -27$ | PASS    |
|            | High   | 5230      | -45.02      | $\leq -27$ | PASS    |
| 11AC80SISO | Low    | 5210      | -32.8       | $\leq -27$ | PASS    |
|            | High   | 5210      | -42.68      | $\leq -27$ | PASS    |

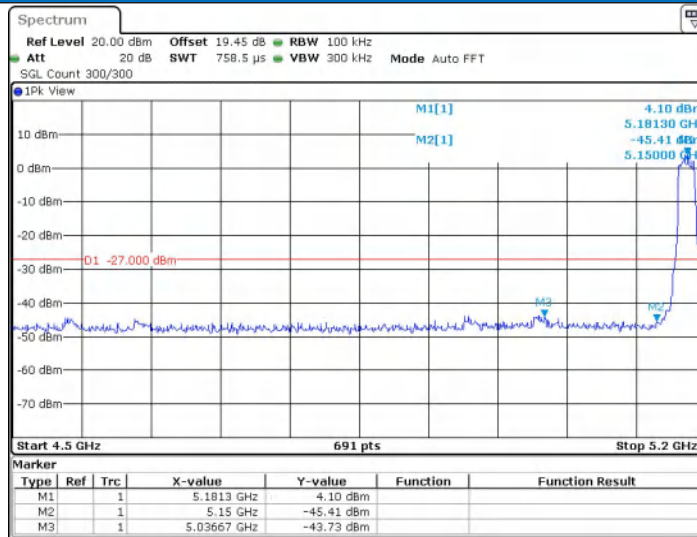
### 7.1.2 Test Result B4

| TestMode  | ChName | Freq(MHz) | FreqRange [MHz] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|--------|-----------|-----------------|--------------|---------------|---------|
| 11A       | Low    | 5745      | 5650~5700       | -44.66       | $\leq -25.77$ | PASS    |
|           |        |           | 5700~5720       | -39.29       | $\leq 15.55$  | PASS    |
|           |        |           | 5720~5725       | -41.86       | $\leq 15.98$  | PASS    |
|           |        |           | 5760~5650       | -44.85       | $\leq -27$    | PASS    |
|           | High   | 5825      | 5850~5855       | -45.86       | $\leq 15.65$  | PASS    |
|           |        |           | 5855~5875       | -44.86       | $\leq 10.51$  | PASS    |
|           |        |           | 5875~5925       | -44.47       | $\leq -26.87$ | PASS    |
|           |        |           | 5925~5935       | -44.36       | $\leq -27$    | PASS    |
| 11N20SISO | Low    | 5745      | 5650~5700       | -45.93       | $\leq -26.88$ | PASS    |
|           |        |           | 5700~5720       | -44.85       | $\leq 10.19$  | PASS    |
|           |        |           | 5720~5725       | -45.23       | $\leq 15.98$  | PASS    |
|           |        |           | 5760~5650       | -45.1        | $\leq -27$    | PASS    |
|           | High   | 5825      | 5850~5855       | -43.99       | $\leq 17.43$  | PASS    |
|           |        |           | 5855~5875       | -44.61       | $\leq 10.35$  | PASS    |
|           |        |           | 5875~5925       | -45.75       | $\leq -26.87$ | PASS    |
|           |        |           | 5925~5935       | -44.02       | $\leq -27$    | PASS    |
| 11N40SISO | Low    | 5755      | 5650~5700       | -46.07       | $\leq -26.65$ | PASS    |
|           |        |           | 5700~5720       | -27.8        | $\leq 14.87$  | PASS    |

|                |      |      |           |        |         |      |
|----------------|------|------|-----------|--------|---------|------|
|                | High | 5795 | 5720~5725 | -31.87 | ≤15.90  | PASS |
|                |      |      | 5780~5650 | -44.65 | ≤-27    | PASS |
|                |      |      | 5850~5855 | -42.77 | ≤15.85  | PASS |
|                |      |      | 5855~5875 | -44.38 | ≤10.14  | PASS |
|                |      |      | 5875~5925 | -43.93 | ≤-26.79 | PASS |
|                |      |      | 5925~5935 | -44.09 | ≤-27    | PASS |
| 11AC20SIS<br>O | Low  | 5745 | 5650~5700 | -46.29 | ≤-26.75 | PASS |
|                |      |      | 5700~5720 | -44.47 | ≤10.70  | PASS |
|                |      |      | 5720~5725 | -38.5  | ≤17.88  | PASS |
|                |      |      | 5760~5650 | -45.23 | ≤-27    | PASS |
|                | High | 5825 | 5850~5855 | -45.12 | ≤15.65  | PASS |
|                |      |      | 5855~5875 | -43.61 | ≤10.73  | PASS |
|                |      |      | 5875~5925 | -45.07 | ≤-26.87 | PASS |
|                |      |      | 5925~5935 | -43.32 | ≤-27    | PASS |
| 11AC40SIS<br>O | Low  | 5755 | 5650~5700 | -45.46 | ≤-26.07 | PASS |
|                |      |      | 5700~5720 | -39.55 | ≤14.87  | PASS |
|                |      |      | 5720~5725 | -41.21 | ≤15.90  | PASS |
|                |      |      | 5780~5650 | -46.01 | ≤-27    | PASS |
|                | High | 5795 | 5850~5855 | -44.55 | ≤15.85  | PASS |
|                |      |      | 5855~5875 | -45.18 | ≤10.01  | PASS |
|                |      |      | 5875~5925 | -44.67 | ≤-26.79 | PASS |
|                |      |      | 5925~5935 | -44.93 | ≤-27    | PASS |
| 11AC80SIS<br>O | Low  | 5775 | 5650~5700 | -46.3  | ≤-26.88 | PASS |
|                |      |      | 5700~5720 | -31.47 | ≤15.55  | PASS |
|                |      |      | 5720~5725 | -32.16 | ≤15.67  | PASS |
|                |      |      | 5800~5650 | -43.81 | ≤-27    | PASS |
|                | High | 5775 | 5850~5855 | -43.35 | ≤15.98  | PASS |
|                |      |      | 5855~5875 | -42.91 | ≤10.32  | PASS |
|                |      |      | 5875~5925 | -44.73 | ≤-26.86 | PASS |
|                |      |      | 5925~5935 | -44.22 | ≤-27    | PASS |

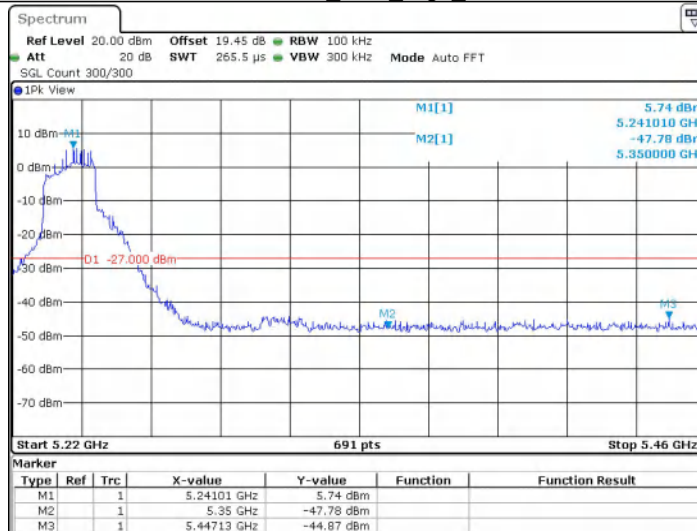
### 7.1.3 Test Graphs B1/2/3





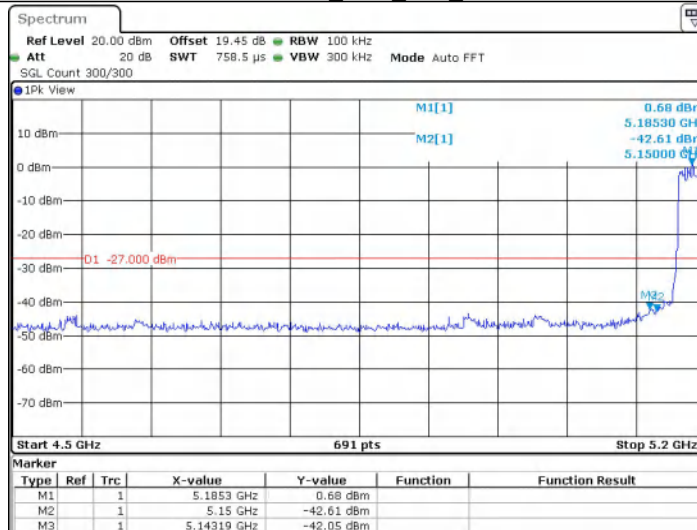
Date: 30 MAY 2025 18:02:48

### 11N20SISO\_Ant1\_High\_5240



Date: 30 MAY 2025 18:07:01

### 11N40SISO\_Ant1\_Low\_5190



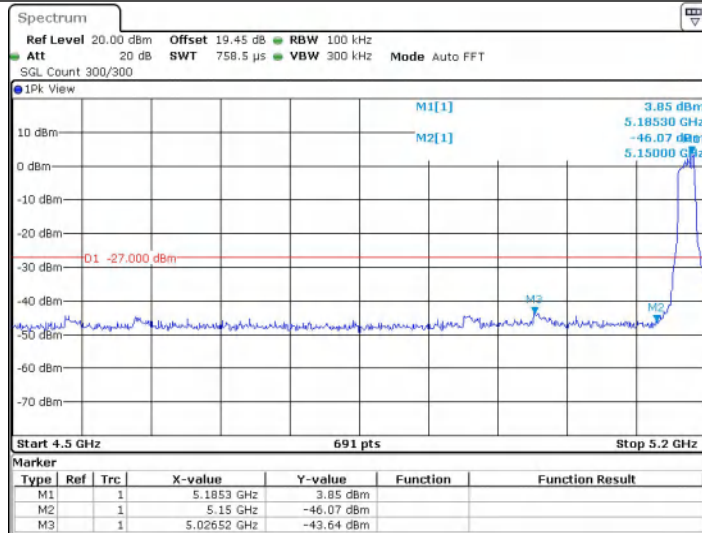
Date: 30 MAY 2025 18:19:40

11N40SISO\_Ant1\_High\_5230



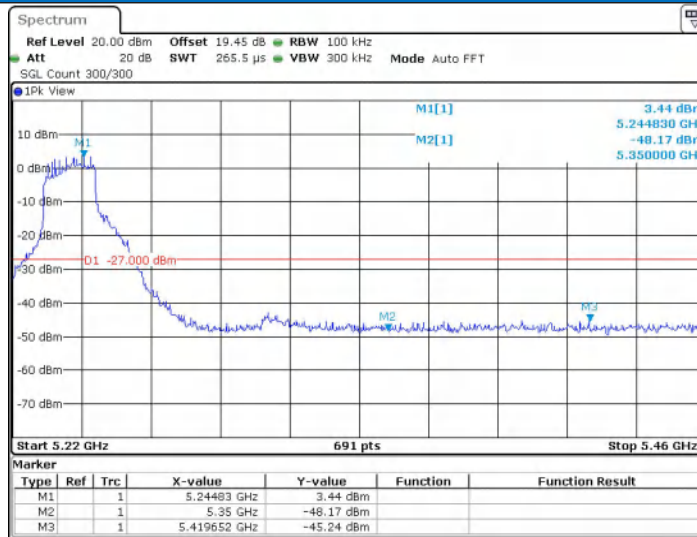
Date: 30.MAY.2025 16:23:21

11AC20SISO\_Ant1\_Low\_5180



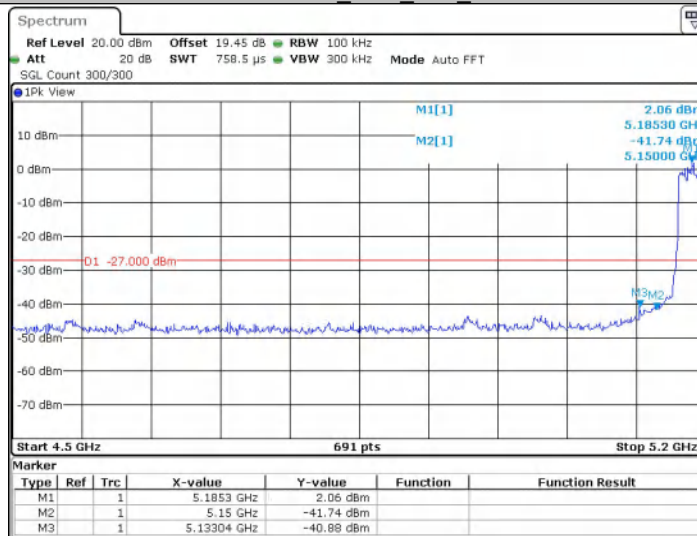
Date: 30.MAY.2025 16:48:50

11AC20SISO\_Ant1\_High\_5240



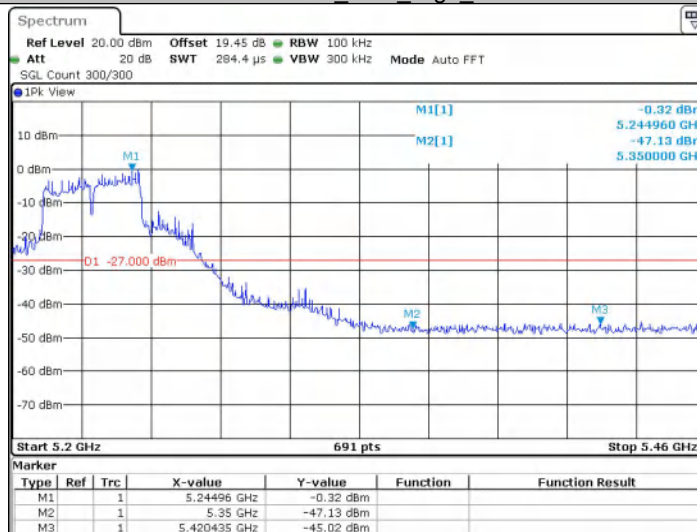
Date: 30 MAY 2025 18:56:05

### 11AC40SISO\_Ant1\_Low\_5190



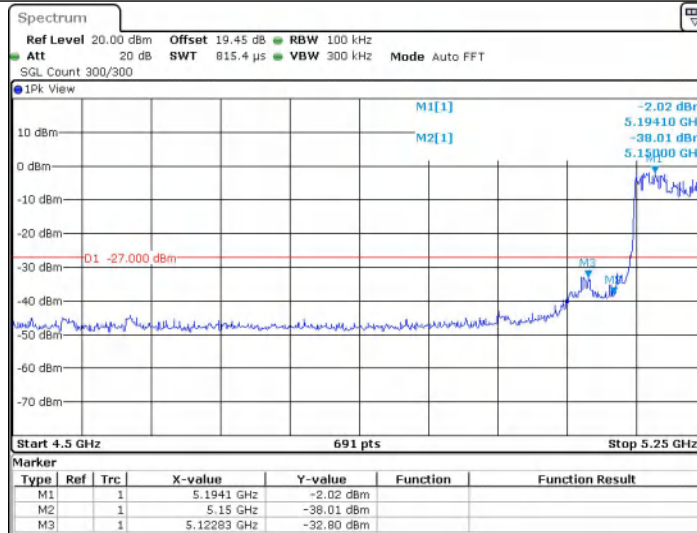
Date: 30 MAY 2025 19:35:29

### 11AC40SISO\_Ant1\_High\_5230



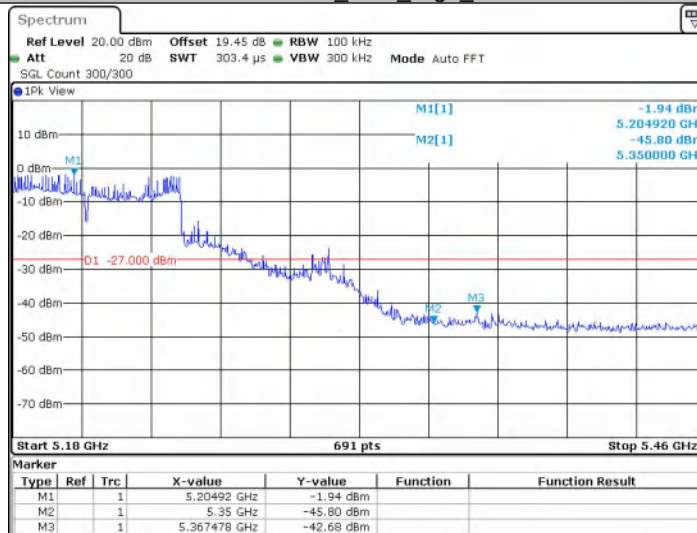
Date: 3 JUN 2025 15:33:12

11AC80SISO\_Ant1\_Low\_5210



Date: 3 JUN 2025 20:25:28

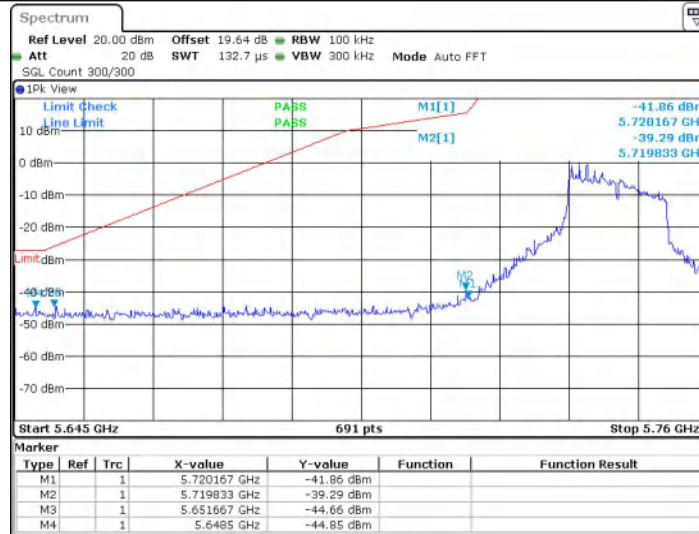
11AC80SISO\_Ant1\_High\_5210



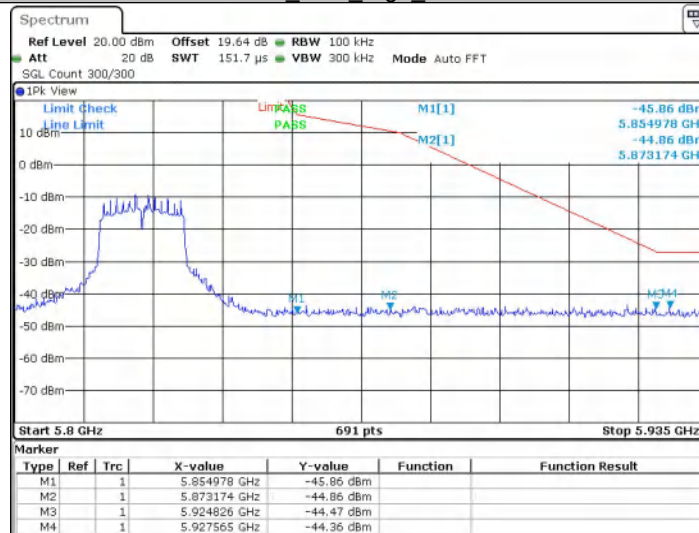
Date: 3 JUN 2025 20:25:41

## 7.1.4 Test Graphs B4

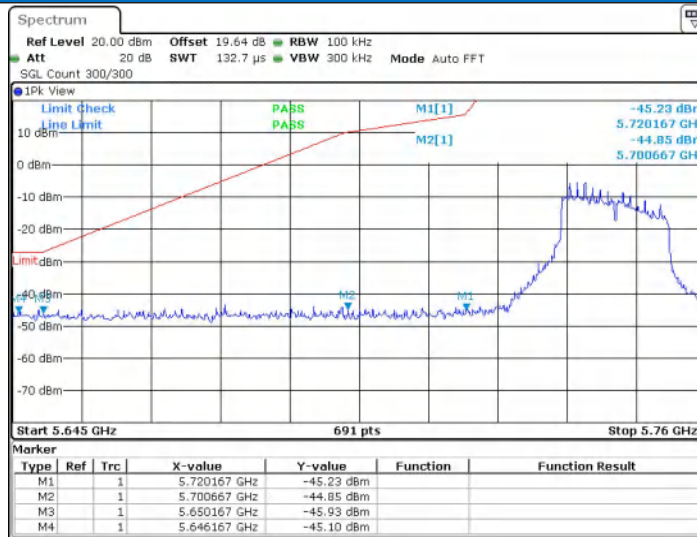
11A\_Ant1\_Low\_5745



11A\_Ant1\_High\_5825

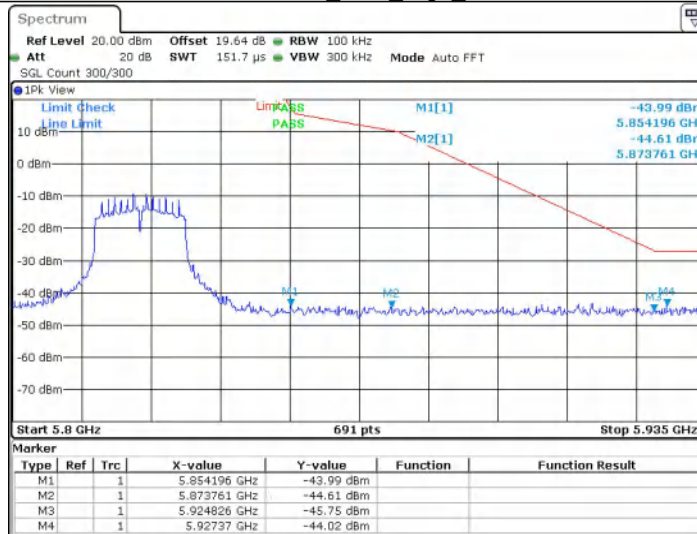


11N20SISO\_Ant1\_Low\_5745



Date: 30 MAY 2025 18:09:23

### 11N20ISO\_Ant1\_High\_5825



Date: 30 MAY 2025 18:14:56

### 11N40ISO\_Ant1\_Low\_5755



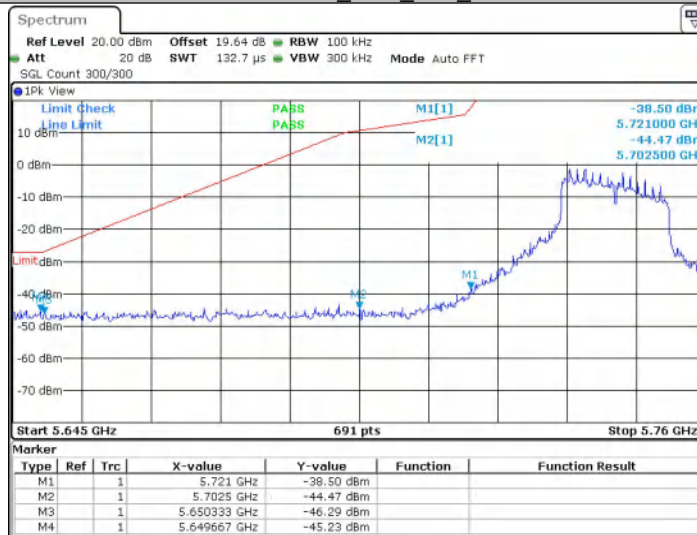
Date: 30 MAY 2025 18:39:32

11N40SISO\_Ant1\_High\_5795



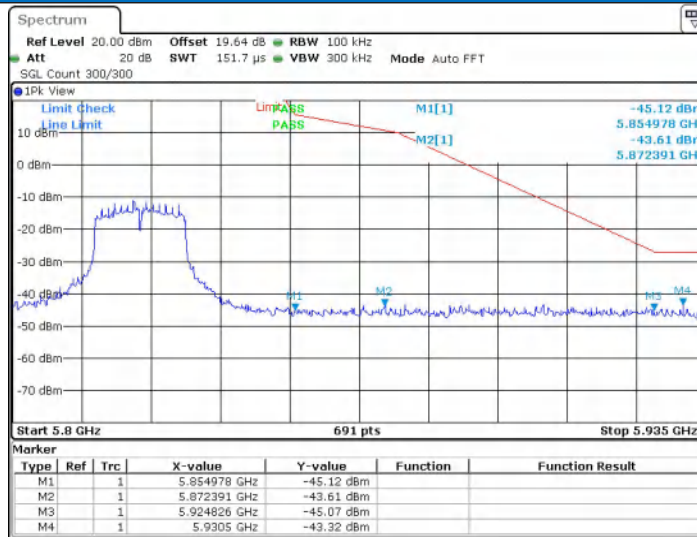
Date: 30 MAY 2025 18:45:11

11AC20SISO\_Ant1\_Low\_5745



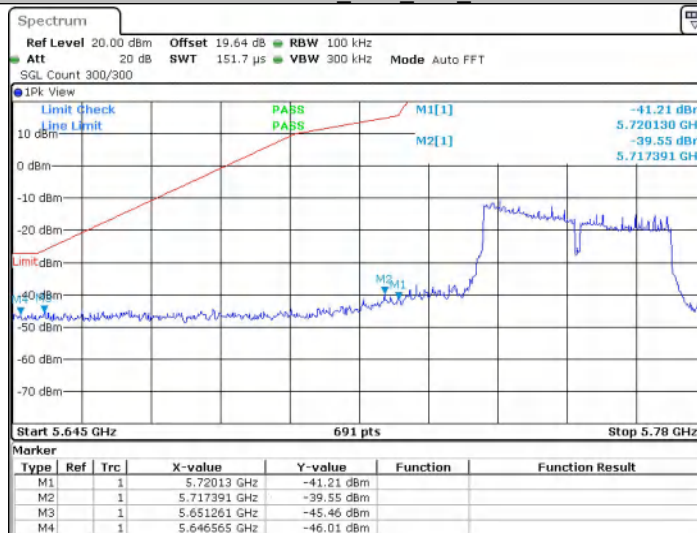
Date: 30 MAY 2025 19:28:25

11AC20SISO\_Ant1\_High\_5825



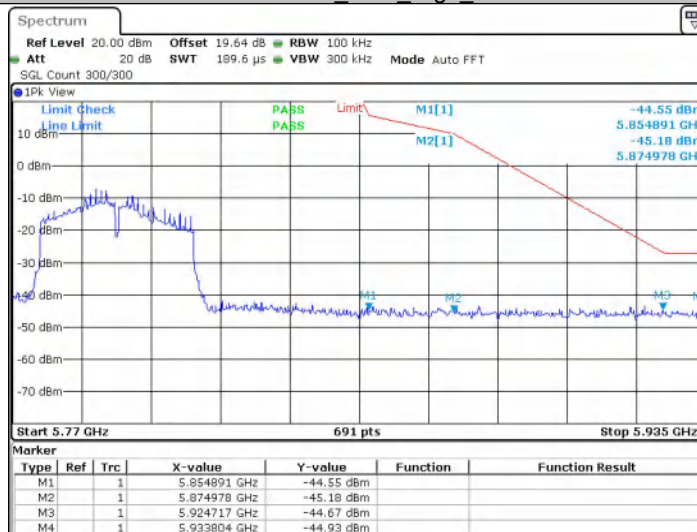
Date: 30 MAY 2025 19:32:29

### 11AC40SISO\_Ant1\_Low\_5755



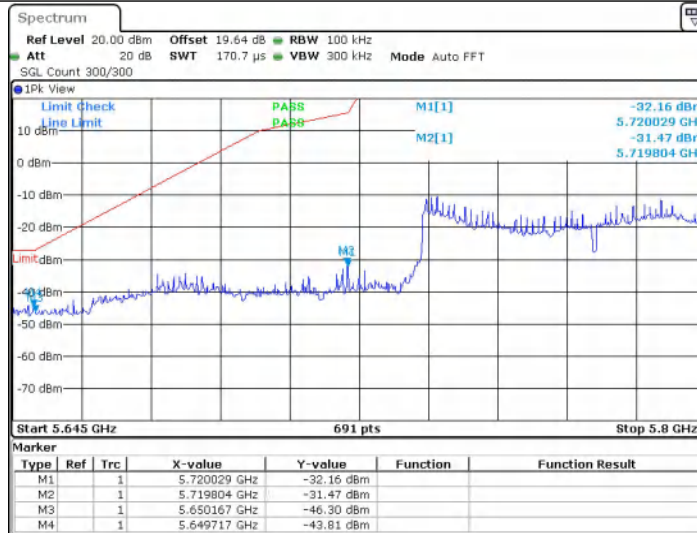
Date: 3 JUN 2025 20:19:26

### 11AC40SISO\_Ant1\_High\_5795



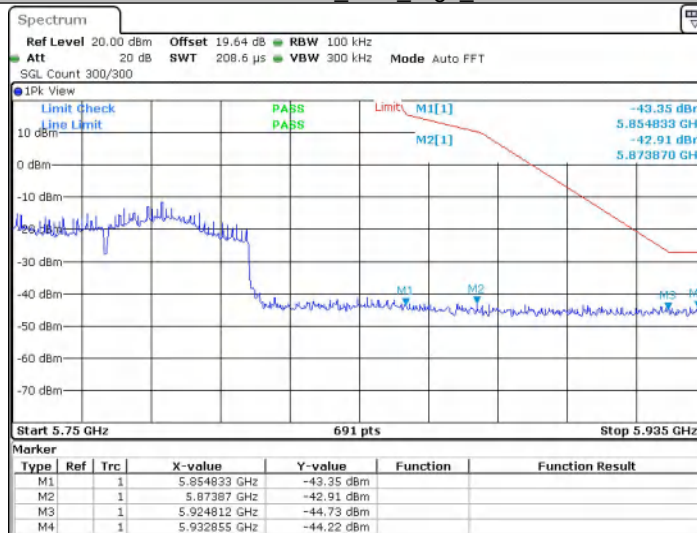
Date: 3 JUN 2025 20:21:44

11AC80SISO\_Ant1\_Low\_5775



Date: 3 JUN 2025 20:30:09

11AC80SISO\_Ant1\_High\_5775



Date: 3 JUN 2025 20:30:22

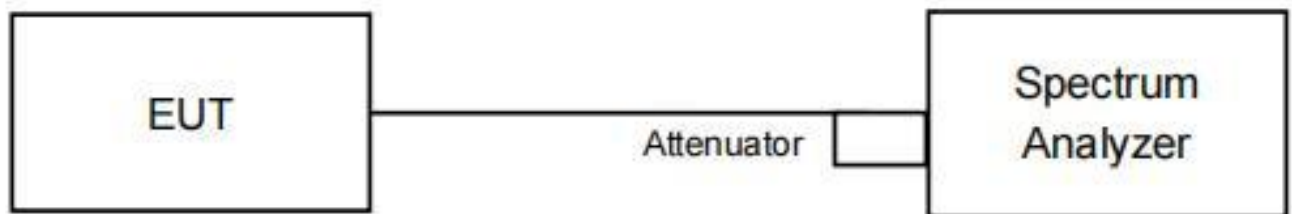
## Appendix E): Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

### Test Setup Diagram



## Measurement Data

| Frequency Stability Versus Temp. |         |                    |           |
|----------------------------------|---------|--------------------|-----------|
| Operating Frequency: 5240 MHz    |         |                    |           |
| Temp                             | Voltage | Measured Frequency | Limit     |
| (°C)                             |         | (MHz)              | (MHz)     |
| 50                               | VN      | 5240.03            | 5150-5250 |
| 40                               |         | 5240.02            | 5150-5250 |
| 30                               |         | 5240.01            | 5150-5250 |
| 20                               |         | 5240.02            | 5150-5250 |
| 10                               |         | 5240.02            | 5150-5250 |
| 0                                |         | 5240.01            | 5150-5250 |
| -10                              |         | 5240.02            | 5150-5250 |
| -30                              |         | 5240.03            | 5150-5250 |

| Frequency Stability Versus Temp. |         |                    |           |
|----------------------------------|---------|--------------------|-----------|
| Operating Frequency: 5210 MHz    |         |                    |           |
| Temp.                            | Voltage | Measured Frequency | Limit     |
|                                  |         | (MHz)              | (MHz)     |
| TN                               | VL      | 5210.00            | 5150-5250 |
|                                  | VN      | 5210.03            | 5150-5250 |
|                                  | VH      | 5210.02            | 5150-5250 |

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

## Appendix F): Antenna Requirement

### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### EUT Antenna:



The antenna is FPC antenna.

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling.

This is either permanently attachment or a unique coupling that satisfies the requirement.

## Appendix G): Operation in the absence of information to the transmit

### 15.407(c) requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### Operation in the absence of information to the transmit

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare )

## Appendix H): AC Power Line Conducted Emission

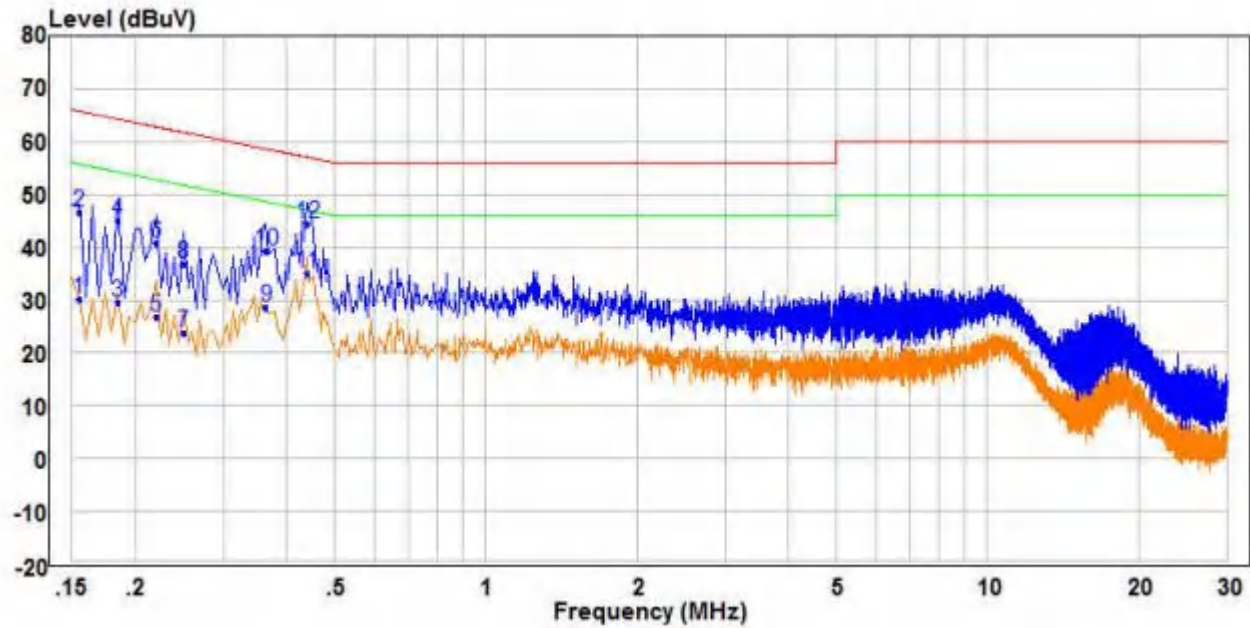
| Test Procedure:       | <p>Test frequency range :150KHz-30MHz</p> <ol style="list-style-type: none"><li>1)The mains terminal disturbance voltage test was conducted in a shielded room.</li><li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li><li>3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li><li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li><li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</li></ol> |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Limit:                | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.</p> <p>NOTE : The lower limit is applicable at the transition frequency</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Frequency range (MHz) | Limit (dBμV) |  | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBμV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|                       | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Average               |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.15-0.5              | 66 to 56*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56 to 46*             |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.5-5                 | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 46                    |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 5-30                  | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50                    |              |  |            |         |          |           |           |       |    |    |      |    |    |

### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

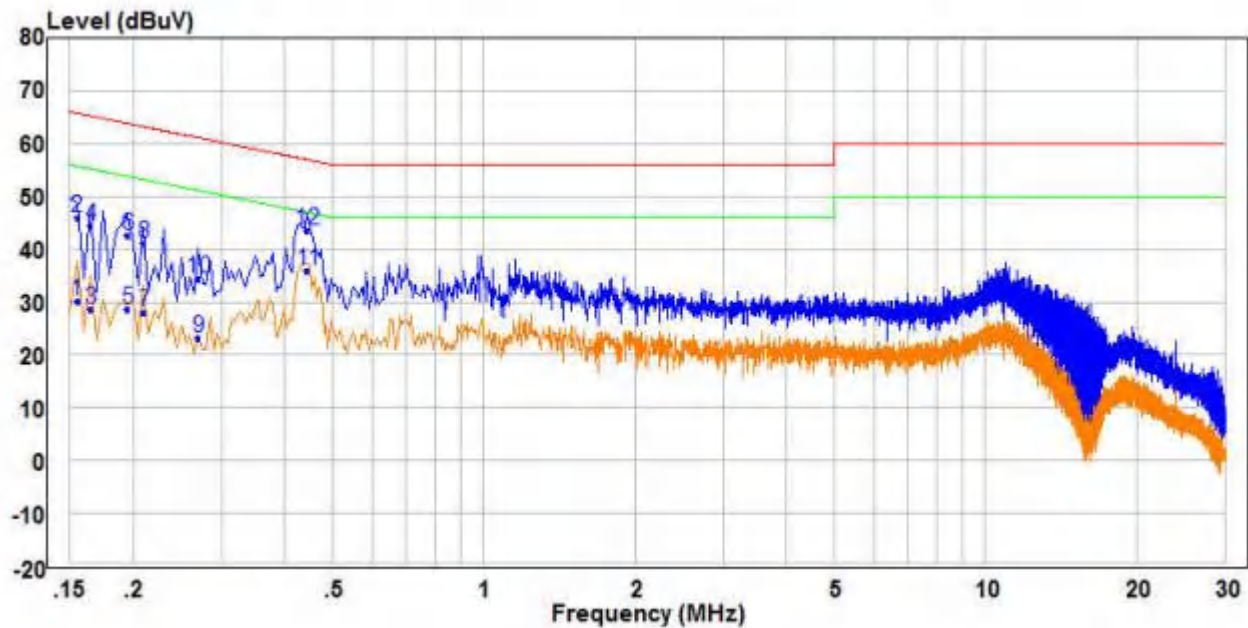
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



|       | Freq  | Read Level | Factor | Level | Limit Line | Over Limit | Remark  | Pol/Phase |
|-------|-------|------------|--------|-------|------------|------------|---------|-----------|
|       | MHz   | dBuV       | dB     | dBuV  | dBuV       | dB         |         |           |
| 1     | 0.155 | 20.47      | 9.69   | 30.16 | 55.73      | -25.57     | Average | Line      |
| 2     | 0.155 | 36.96      | 9.69   | 46.65 | 65.73      | -19.08     | QP      | Line      |
| 3     | 0.185 | 19.98      | 9.64   | 29.62 | 54.26      | -24.64     | Average | Line      |
| 4     | 0.185 | 35.34      | 9.64   | 44.98 | 64.26      | -19.28     | QP      | Line      |
| 5     | 0.220 | 17.18      | 9.58   | 26.76 | 52.82      | -26.06     | Average | Line      |
| 6     | 0.220 | 31.23      | 9.58   | 40.81 | 62.82      | -22.01     | QP      | Line      |
| 7     | 0.250 | 14.22      | 9.55   | 23.77 | 51.76      | -27.99     | Average | Line      |
| 8     | 0.250 | 27.28      | 9.55   | 36.83 | 61.76      | -24.93     | QP      | Line      |
| 9     | 0.365 | 18.99      | 9.57   | 28.56 | 48.61      | -20.05     | Average | Line      |
| 10    | 0.365 | 29.71      | 9.57   | 39.28 | 58.61      | -19.33     | QP      | Line      |
| 11 PP | 0.440 | 25.24      | 9.65   | 34.89 | 47.06      | -12.17     | Average | Line      |
| 12 QP | 0.440 | 34.91      | 9.65   | 44.56 | 57.06      | -12.50     | QP      | Line      |

Neutral line:



|       | Freq  | Read  |        | Limit | Over  |        |           |
|-------|-------|-------|--------|-------|-------|--------|-----------|
|       | MHz   | Level | Factor | Level | Line  | Limit  | Remark    |
|       | MHz   | dBuV  | dB     | dBuV  | dBuV  | dB     | Pol/Phase |
| 1     | 0.155 | 20.36 | 9.69   | 30.05 | 55.73 | -25.68 | Average   |
| 2     | 0.155 | 36.22 | 9.69   | 45.91 | 65.73 | -19.82 | QP        |
| 3     | 0.165 | 18.85 | 9.67   | 28.52 | 55.21 | -26.69 | Average   |
| 4     | 0.165 | 34.91 | 9.67   | 44.58 | 65.21 | -20.63 | QP        |
| 5     | 0.195 | 18.99 | 9.62   | 28.61 | 53.82 | -25.21 | Average   |
| 6     | 0.195 | 33.00 | 9.62   | 42.62 | 63.82 | -21.20 | QP        |
| 7     | 0.210 | 18.36 | 9.59   | 27.95 | 53.21 | -25.26 | Average   |
| 8     | 0.210 | 31.50 | 9.59   | 41.09 | 63.21 | -22.12 | QP        |
| 9     | 0.270 | 13.70 | 9.51   | 23.21 | 51.12 | -27.91 | Average   |
| 10    | 0.270 | 25.04 | 9.51   | 34.55 | 61.12 | -26.57 | QP        |
| 11 PP | 0.445 | 26.28 | 9.65   | 35.93 | 46.97 | -11.04 | Average   |
| 12 QP | 0.445 | 34.03 | 9.65   | 43.68 | 56.97 | -13.29 | QP        |

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. The 6Mbps of rate of 802.11A\_5240 is the worst case, only the worst data recorded in the report.

## Appendix I): Restricted bands around fundamental frequency (Radiated Emission)

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |        |                  |            |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|------------------|------------|
| Receiver Setup: | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Detector            | RBW    | VBW              | Remark     |
|                 | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quasi-peak          | 120kHz | 300kHz           | Quasi-peak |
|                 | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Peak                | 1MHz   | 3MHz             | Peak       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Peak                | 1MHz   | 10Hz             | Average    |
| Test Procedure: | <p><b>Below 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> </ol> <p><b>Above 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).</li> <li>Test the EUT in the lowest channel , the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol> |                     |        |                  |            |
| Limit:          | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Limit (dBμV/m @3cm) |        | Remark           |            |
|                 | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 40.0                |        | Quasi-peak Value |            |
|                 | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 43.5                |        | Quasi-peak Value |            |
|                 | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 46.0                |        | Quasi-peak Value |            |
|                 | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 54.0                |        | Quasi-peak Value |            |
|                 | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 54.0                |        | Average Value    |            |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 74.0                |        | Peak Value       |            |

Test plot as follows:

| Worse case mode: |               | 802.11a |                | Test channel: |        | 36             |           |                |             |
|------------------|---------------|---------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor  | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)    | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5150.00          | 58.40         | -3.63   | 54.77          | 74            | -19.23 | peak           | H         | 1.5            | 58          |
| 5150.00          | 44.87         | -3.63   | 41.24          | 54            | -12.76 | AVG            | H         | 1.5            | 331         |
| 5150.00          | 60.11         | -3.63   | 56.48          | 74            | -17.52 | peak           | V         | 1.5            | 90          |
| 5150.00          | 46.12         | -3.63   | 42.49          | 54            | -11.51 | AVG            | V         | 1.5            | 299         |

| Worse case mode: |               | 802.11a |                | Test channel: |        | 48             |           |                |             |
|------------------|---------------|---------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor  | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)    | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5350.00          | 58.53         | -3.59   | 54.94          | 74            | -19.06 | peak           | H         | 1.5            | 203         |
| 5350.00          | 44.28         | -3.59   | 40.69          | 54            | -13.31 | AVG            | H         | 1.5            | 34          |
| 5350.00          | 60.00         | -3.59   | 56.41          | 74            | -17.59 | peak           | V         | 1.5            | 39          |
| 5350.00          | 46.23         | -3.59   | 42.64          | 54            | -11.36 | AVG            | V         | 1.5            | 150         |

| Worse case mode: |               | 802.11a |                | Test channel: |        | 149            |           |                |             |
|------------------|---------------|---------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor  | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)    | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5470.00          | 57.69         | -3.44   | 54.25          | 74            | -19.75 | peak           | H         | 1.5            | 222         |
| 5470.00          | 43.95         | -3.44   | 40.51          | 54            | -13.49 | AVG            | H         | 1.5            | 331         |
| 5470.00          | 57.57         | -3.44   | 54.13          | 74            | -19.87 | peak           | V         | 1.5            | 18          |
| 5470.00          | 46.07         | -3.44   | 42.63          | 54            | -11.37 | AVG            | V         | 1.5            | 299         |

| Worse case mode: |               | 802.11a |                | Test channel: |        | 165            |           |                |             |
|------------------|---------------|---------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor  | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)    | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5850.00          | 58.34         | -3.42   | 54.92          | 74            | -19.08 | peak           | H         | 1.5            | 89          |
| 5850.00          | 44.23         | -3.42   | 40.81          | 54            | -13.19 | AVG            | H         | 1.5            | 308         |
| 5850.00          | 59.99         | -3.42   | 56.57          | 74            | -17.43 | peak           | V         | 1.5            | 26          |
| 5850.00          | 46.72         | -3.42   | 43.30          | 54            | -10.70 | AVG            | V         | 1.5            | 238         |

| Worse case mode: |               | 802.11n(HT20) |                | Test channel: |        | 36             |           |                |             |
|------------------|---------------|---------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor        | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)          | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5150.00          | 58.71         | -3.63         | 55.08          | 74            | -18.92 | peak           | H         | 1.5            | 241         |
| 5150.00          | 44.78         | -3.63         | 41.15          | 54            | -12.85 | AVG            | H         | 1.5            | 47          |
| 5150.00          | 59.31         | -3.63         | 55.68          | 74            | -18.32 | peak           | V         | 1.5            | 90          |
| 5150.00          | 46.92         | -3.63         | 43.29          | 54            | -10.71 | AVG            | V         | 1.5            | 102         |

| Worse case mode: |               | 802.11n(HT20) |                | Test channel: |        | 48             |           |                |             |
|------------------|---------------|---------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor        | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)          | (dBμV/m)       | (dBμV/m)      | (dB)   | Type           | H/V       | (m)            | (Degree)    |
| 5350.00          | 58.41         | -3.59         | 54.82          | 74            | -19.18 | peak           | H         | 1.5            | 24          |
| 5350.00          | 44.01         | -3.59         | 40.42          | 54            | -13.58 | AVG            | H         | 1.5            | 285         |
| 5350.00          | 59.90         | -3.59         | 56.31          | 74            | -17.69 | peak           | V         | 1.5            | 143         |
| 5350.00          | 46.31         | -3.59         | 42.72          | 54            | -11.28 | AVG            | V         | 1.5            | 222         |

| Worse case mode: |               | 802.11n(HT20) |                | Test channel: |        | 149            |           |                |             |
|------------------|---------------|---------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor        | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)          | (dBμV/m)       | (dBμV/m)      | (dB)   | Type           | H/V       | (m)            | (Degree)    |
| 5470.00          | 58.02         | -3.44         | 54.58          | 74            | -19.42 | peak           | H         | 1.5            | 3           |
| 5470.00          | 44.26         | -3.44         | 40.82          | 54            | -13.18 | AVG            | H         | 1.5            | 335         |
| 5470.00          | 58.32         | -3.44         | 54.88          | 74            | -19.12 | peak           | V         | 1.5            | 108         |
| 5470.00          | 45.60         | -3.44         | 42.16          | 54            | -11.84 | AVG            | V         | 1.5            | 159         |

| Worse case mode: |               | 802.11n(HT20) |                | Test channel: |        | 165            |           |                |             |
|------------------|---------------|---------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor        | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)          | (dBμV/m)       | (dBμV/m)      | (dB)   | Type           | H/V       | (m)            | (Degree)    |
| 5850.00          | 58.72         | -3.42         | 55.30          | 74            | -18.70 | peak           | H         | 1.5            | 199         |
| 5850.00          | 44.90         | -3.42         | 41.48          | 54            | -12.52 | AVG            | H         | 1.5            | 209         |
| 5850.00          | 59.74         | -3.42         | 56.32          | 74            | -17.68 | peak           | V         | 1.5            | 317         |
| 5850.00          | 46.51         | -3.42         | 43.09          | 54            | -10.91 | AVG            | V         | 1.5            | 184         |

| Worse case mode: |               | 802.11n(HT40) |                | Test channel: |        | 38             |           |                |             |
|------------------|---------------|---------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor        | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)          | (dBμV/m)       | (dBμV/m)      | (dB)   | Type           | H/V       | (m)            | (Degree)    |
| 5150.00          | 58.59         | -3.63         | 54.96          | 74            | -19.04 | peak           | H         | 1.5            | 63          |
| 5150.00          | 44.78         | -3.63         | 41.15          | 54            | -12.85 | AVG            | H         | 1.5            | 333         |
| 5150.00          | 59.77         | -3.63         | 56.14          | 74            | -17.86 | peak           | V         | 1.5            | 138         |
| 5150.00          | 46.87         | -3.63         | 43.24          | 54            | -10.76 | AVG            | V         | 1.5            | 206         |

| Worse case mode: |               | 802.11n(HT40) |                | Test channel: |        | 46             |           |                |             |
|------------------|---------------|---------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor        | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)          | (dBμV/m)       | (dBμV/m)      | (dB)   | Type           | H/V       | (m)            | (Degree)    |
| 5350.00          | 59.04         | -3.59         | 55.45          | 74            | -18.55 | peak           | H         | 1.5            | 137         |
| 5350.00          | 44.63         | -3.59         | 41.04          | 54            | -12.96 | AVG            | H         | 1.5            | 218         |
| 5350.00          | 59.93         | -3.59         | 56.34          | 74            | -17.66 | peak           | V         | 1.5            | 225         |
| 5350.00          | 46.91         | -3.59         | 43.32          | 54            | -10.68 | AVG            | V         | 1.5            | 295         |

| Worse case mode: |               | 802.11n(HT40) |                | Test channel: |        | 151            |           |                |             |
|------------------|---------------|---------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor        | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)          | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5470.00          | 57.50         | -3.44         | 54.06          | 74            | -19.94 | peak           | H         | 1.5            | 13          |
| 5470.00          | 44.16         | -3.44         | 40.72          | 54            | -13.28 | AVG            | H         | 1.5            | 289         |
| 5470.00          | 57.87         | -3.44         | 54.43          | 74            | -19.57 | peak           | V         | 1.5            | 228         |
| 5470.00          | 45.48         | -3.44         | 42.04          | 54            | -11.96 | AVG            | V         | 1.5            | 149         |

| Worse case mode: |               | 802.11n(HT40) |                | Test channel: |        | 159            |           |                |             |
|------------------|---------------|---------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor        | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)          | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5850.00          | 58.85         | -3.42         | 55.43          | 74            | -18.57 | peak           | H         | 1.5            | 302         |
| 5850.00          | 44.50         | -3.42         | 41.08          | 54            | -12.92 | AVG            | H         | 1.5            | 17          |
| 5850.00          | 59.87         | -3.42         | 56.45          | 74            | -17.55 | peak           | V         | 1.5            | 247         |
| 5850.00          | 46.10         | -3.42         | 42.68          | 54            | -11.32 | AVG            | V         | 1.5            | 85          |

| Worse case mode: |               | 802.11ac(VHT20) |                | Test channel: |        | 36             |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5150.00          | 58.56         | -3.63           | 54.93          | 74            | -19.07 | peak           | H         | 1.5            | 91          |
| 5150.00          | 44.16         | -3.63           | 40.53          | 54            | -13.47 | AVG            | H         | 1.5            | 278         |
| 5150.00          | 60.15         | -3.63           | 56.52          | 74            | -17.48 | peak           | V         | 1.5            | 210         |
| 5150.00          | 46.34         | -3.63           | 42.71          | 54            | -11.29 | AVG            | V         | 1.5            | 290         |

| Worse case mode: |               | 802.11ac(VHT20) |                | Test channel: |        | 48             |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5350.00          | 58.57         | -3.59           | 54.98          | 74            | -19.02 | peak           | H         | 1.5            | 321         |
| 5350.00          | 44.04         | -3.59           | 40.45          | 54            | -13.55 | AVG            | H         | 1.5            | 234         |
| 5350.00          | 59.99         | -3.59           | 56.40          | 74            | -17.60 | peak           | V         | 1.5            | 145         |
| 5350.00          | 46.56         | -3.59           | 42.97          | 54            | -11.03 | AVG            | V         | 1.5            | 290         |

| Worse case mode: |               | 802.11ac(VHT20) |                | Test channel: |        | 149            |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5470.00          | 57.98         | -3.44           | 54.54          | 74            | -19.46 | peak           | H         | 1.5            | 254         |
| 5470.00          | 44.43         | -3.44           | 40.99          | 54            | -13.01 | AVG            | H         | 1.5            | 125         |
| 5470.00          | 57.43         | -3.44           | 53.99          | 74            | -20.01 | peak           | V         | 1.5            | 277         |
| 5470.00          | 46.39         | -3.44           | 42.95          | 54            | -11.05 | AVG            | V         | 1.5            | 122         |

| Worse case mode: |               | 802.11ac(VHT20) |                | Test channel: |        | 165            |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5850.00          | 58.47         | -3.42           | 55.05          | 74            | -18.95 | peak           | H         | 1.5            | 89          |
| 5850.00          | 44.79         | -3.42           | 41.37          | 54            | -12.63 | AVG            | H         | 1.5            | 260         |
| 5850.00          | 60.04         | -3.42           | 56.62          | 74            | -17.38 | peak           | V         | 1.5            | 12          |
| 5850.00          | 46.70         | -3.42           | 43.28          | 54            | -10.72 | AVG            | V         | 1.5            | 3           |

| Worse case mode: |               | 802.11ac(VHT40) |                | Test channel: |        | 38             |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5150.00          | 58.63         | -3.63           | 55.00          | 74            | -19.00 | peak           | H         | 1.5            | 219         |
| 5150.00          | 44.05         | -3.63           | 40.42          | 54            | -13.58 | AVG            | H         | 1.5            | 277         |
| 5150.00          | 59.80         | -3.63           | 56.17          | 74            | -17.83 | peak           | V         | 1.5            | 245         |
| 5150.00          | 46.57         | -3.63           | 42.94          | 54            | -11.06 | AVG            | V         | 1.5            | 267         |

| Worse case mode: |               | 802.11ac(VHT40) |                | Test channel: |        | 46             |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5350.00          | 58.80         | -3.59           | 55.21          | 74            | -18.79 | peak           | H         | 1.5            | 84          |
| 5350.00          | 44.03         | -3.59           | 40.44          | 54            | -13.56 | AVG            | H         | 1.5            | 121         |
| 5350.00          | 59.34         | -3.59           | 55.75          | 74            | -18.25 | peak           | V         | 1.5            | 12          |
| 5350.00          | 46.82         | -3.59           | 43.23          | 54            | -10.77 | AVG            | V         | 1.5            | 25          |

| Worse case mode: |               | 802.11ac(VHT40) |                | Test channel: |        | 151            |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5470.00          | 57.90         | -3.44           | 54.46          | 74            | -19.54 | peak           | H         | 1.5            | 278         |
| 5470.00          | 43.67         | -3.44           | 40.23          | 54            | -13.77 | AVG            | H         | 1.5            | 136         |
| 5470.00          | 57.56         | -3.44           | 54.12          | 74            | -19.88 | peak           | V         | 1.5            | 349         |
| 5470.00          | 45.62         | -3.44           | 42.18          | 54            | -11.82 | AVG            | V         | 1.5            | 351         |

| Worse case mode: |               | 802.11ac(VHT40) |                | Test channel: |        | 159            |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                |           | (m)            | (Degree)    |
| 5850.00          | 58.85         | -3.42           | 55.43          | 74            | -18.57 | peak           | H         | 1.5            | 28          |
| 5850.00          | 44.15         | -3.42           | 40.73          | 54            | -13.27 | AVG            | H         | 1.5            | 241         |
| 5850.00          | 59.44         | -3.42           | 56.02          | 74            | -17.98 | peak           | V         | 1.5            | 78          |
| 5850.00          | 46.10         | -3.42           | 42.68          | 54            | -11.32 | AVG            | V         | 1.5            | 278         |

| Worse case mode: |               | 802.11ac(VHT80) |                | Test channel: |        | 42             |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5150.00          | 58.51         | -3.63           | 54.88          | 74            | -19.12 | peak           | H         | 1.5            | 2           |
| 5150.00          | 44.55         | -3.63           | 40.92          | 54            | -13.08 | AVG            | H         | 1.5            | 294         |
| 5150.00          | 59.61         | -3.63           | 55.98          | 74            | -18.02 | peak           | V         | 1.5            | 64          |
| 5150.00          | 46.44         | -3.63           | 42.81          | 54            | -11.19 | AVG            | V         | 1.5            | 90          |

| Worse case mode: |               | 802.11ac(VHT80) |                | Test channel: |        | 42             |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5350.00          | 58.30         | -3.59           | 54.71          | 74            | -19.29 | peak           | H         | 1.5            | 129         |
| 5350.00          | 44.00         | -3.59           | 40.41          | 54            | -13.59 | AVG            | H         | 1.5            | 185         |
| 5350.00          | 59.37         | -3.59           | 55.78          | 74            | -18.22 | peak           | V         | 1.5            | 23          |
| 5350.00          | 46.90         | -3.59           | 43.31          | 54            | -10.69 | AVG            | V         | 1.5            | 303         |

| Worse case mode: |               | 802.11ac(VHT80) |                | Test channel: |        | 155            |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5470.00          | 58.35         | -3.44           | 54.91          | 74            | -19.09 | peak           | H         | 1.5            | 21          |
| 5470.00          | 44.36         | -3.44           | 40.92          | 54            | -13.08 | AVG            | H         | 1.5            | 118         |
| 5470.00          | 58.21         | -3.44           | 54.77          | 74            | -19.23 | peak           | V         | 1.5            | 162         |
| 5470.00          | 46.35         | -3.44           | 42.91          | 54            | -11.09 | AVG            | V         | 1.5            | 297         |

| Worse case mode: |               | 802.11ac(VHT80) |                | Test channel: |        | 155            |           |                |             |
|------------------|---------------|-----------------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency        | Meter Reading | Factor          | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)            | (dBμV)        | (dB)            | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 5850.00          | 58.84         | -3.42           | 55.42          | 74            | -18.58 | peak           | H         | 1.5            | 303         |
| 5850.00          | 44.69         | -3.42           | 41.27          | 54            | -12.73 | AVG            | H         | 1.5            | 185         |
| 5850.00          | 60.13         | -3.42           | 56.71          | 74            | -17.29 | peak           | V         | 1.5            | 126         |
| 5850.00          | 46.79         | -3.42           | 43.37          | 54            | -10.63 | AVG            | V         | 1.5            | 283         |

Note:

1) Through Pre-scan transmitting mode with all kind of modulation and data rate, Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

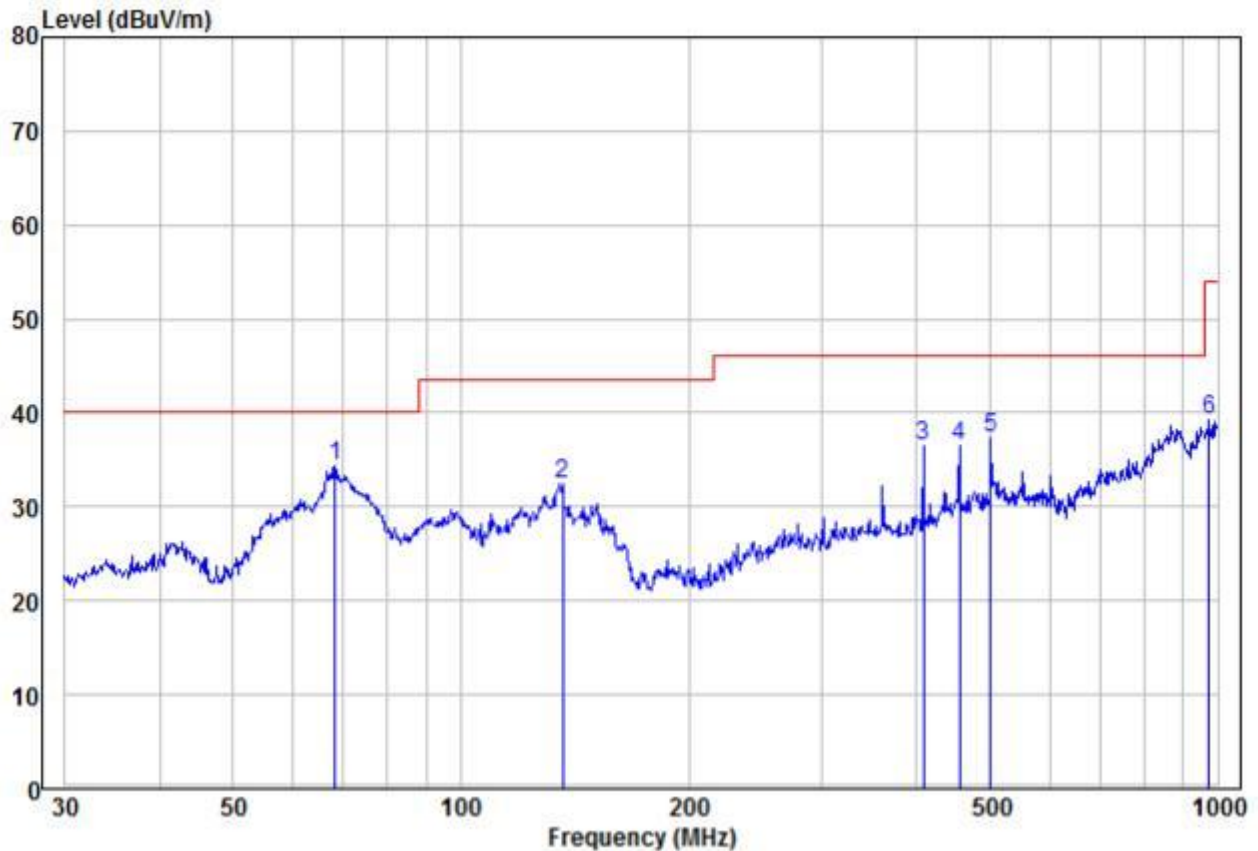
## Appendix J): Radiated Spurious Emissions

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                             |                                  |                 |            |                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------|------------|---------------------------|
| Receiver Setup:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Frequency                                                                                                                                                                                                                                                                   | Detector                         | RBW             | VBW        | Remark                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                           | Peak                             | 10kHz           | 30kHz      | Peak                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                           | Average                          | 10kHz           | 30kHz      | Average                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.090MHz-0.110MHz                                                                                                                                                                                                                                                           | Quasi-peak                       | 10kHz           | 30kHz      | Quasi-peak                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                           | Peak                             | 10kHz           | 30kHz      | Peak                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                           | Average                          | 10kHz           | 30kHz      | Average                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.490MHz -30MHz                                                                                                                                                                                                                                                             | Quasi-peak                       | 10kHz           | 30kHz      | Quasi-peak                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30MHz-1GHz                                                                                                                                                                                                                                                                  | Quasi-peak                       | 120kHz          | 300kHz     | Quasi-peak                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Above 1GHz                                                                                                                                                                                                                                                                  | Peak                             | 1MHz            | 3MHz       | Peak                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                             | Peak                             | 1MHz            | 10Hz       | Average                   |
| Test Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                             |                                  |                 |            |                           |
| <b>Below 1GHz test procedure as below:</b><br>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.<br>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.<br>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.<br><b>Above 1GHz test procedure as below:</b><br>g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre)<br>h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel<br>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.<br>j. Repeat above procedures until all frequencies measured was complete. |                                                                                                                                                                                                                                                                             |                                  |                 |            |                           |
| Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency                                                                                                                                                                                                                                                                   | Field strength (microvolt/meter) | Limit (dBµV/cm) | Remark     | Measurement distance (cm) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.009MHz-0.490MHz                                                                                                                                                                                                                                                           | 2400/F(kHz)                      | -               | -          | 300                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.490MHz-1.705MHz                                                                                                                                                                                                                                                           | 24000/F(kHz)                     | -               | -          | 30                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.705MHz-30MHz                                                                                                                                                                                                                                                              | 30                               | -               | -          | 30                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30MHz-88MHz                                                                                                                                                                                                                                                                 | 100                              | 40.0            | Quasi-peak | 3                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 88MHz-216MHz                                                                                                                                                                                                                                                                | 150                              | 43.5            | Quasi-peak | 3                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 216MHz-960MHz                                                                                                                                                                                                                                                               | 200                              | 46.0            | Quasi-peak | 3                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 960MHz-1GHz                                                                                                                                                                                                                                                                 | 500                              | 54.0            | Quasi-peak | 3                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Above 1GHz                                                                                                                                                                                                                                                                  | 500                              | 54.0            | Average    | 3                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. |                                  |                 |            |                           |
| Test result: PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |                                  |                 |            |                           |

**Test Data:**

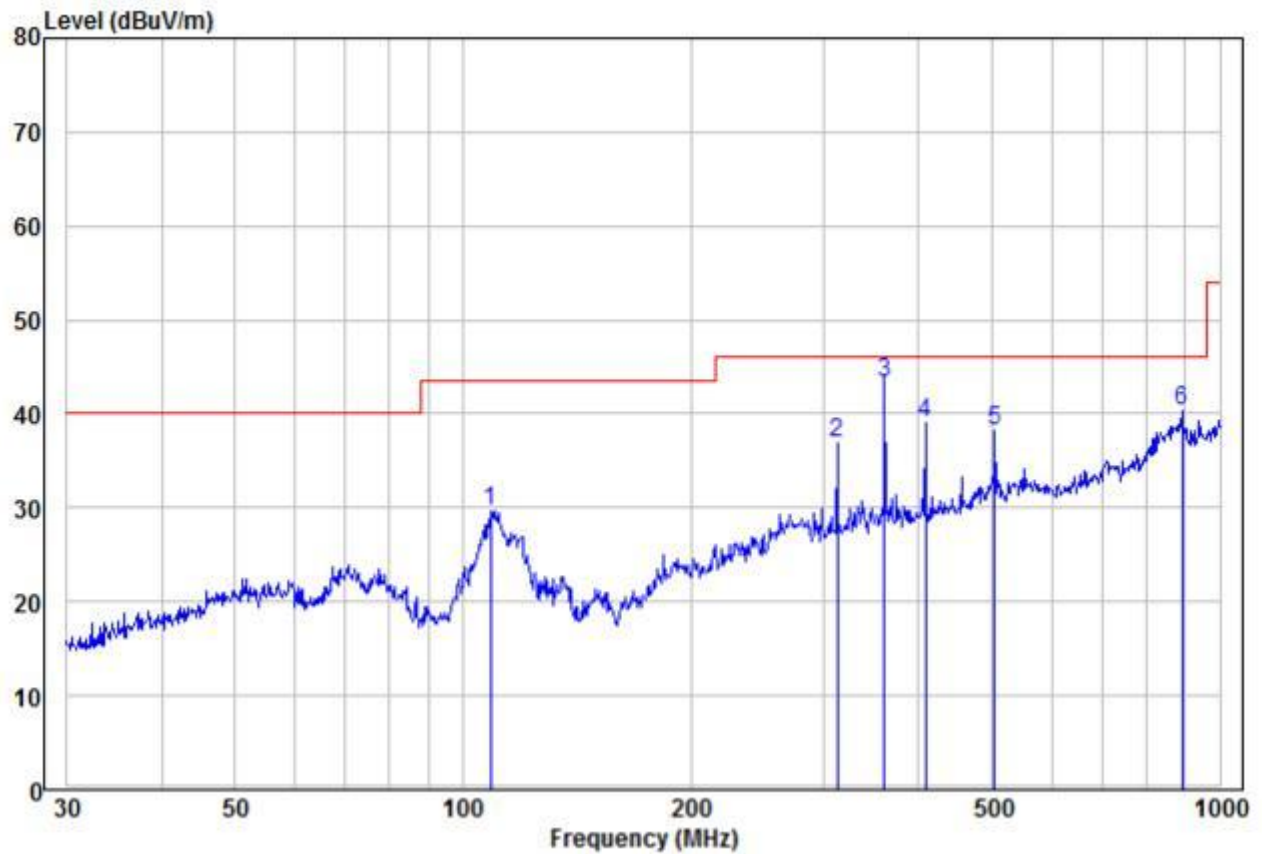
**Radiated Emission below 1GHz**

| 30MHz~1GHz |                             |          |
|------------|-----------------------------|----------|
| Test mode: | Transmitting (802.11a 36CH) | Vertical |



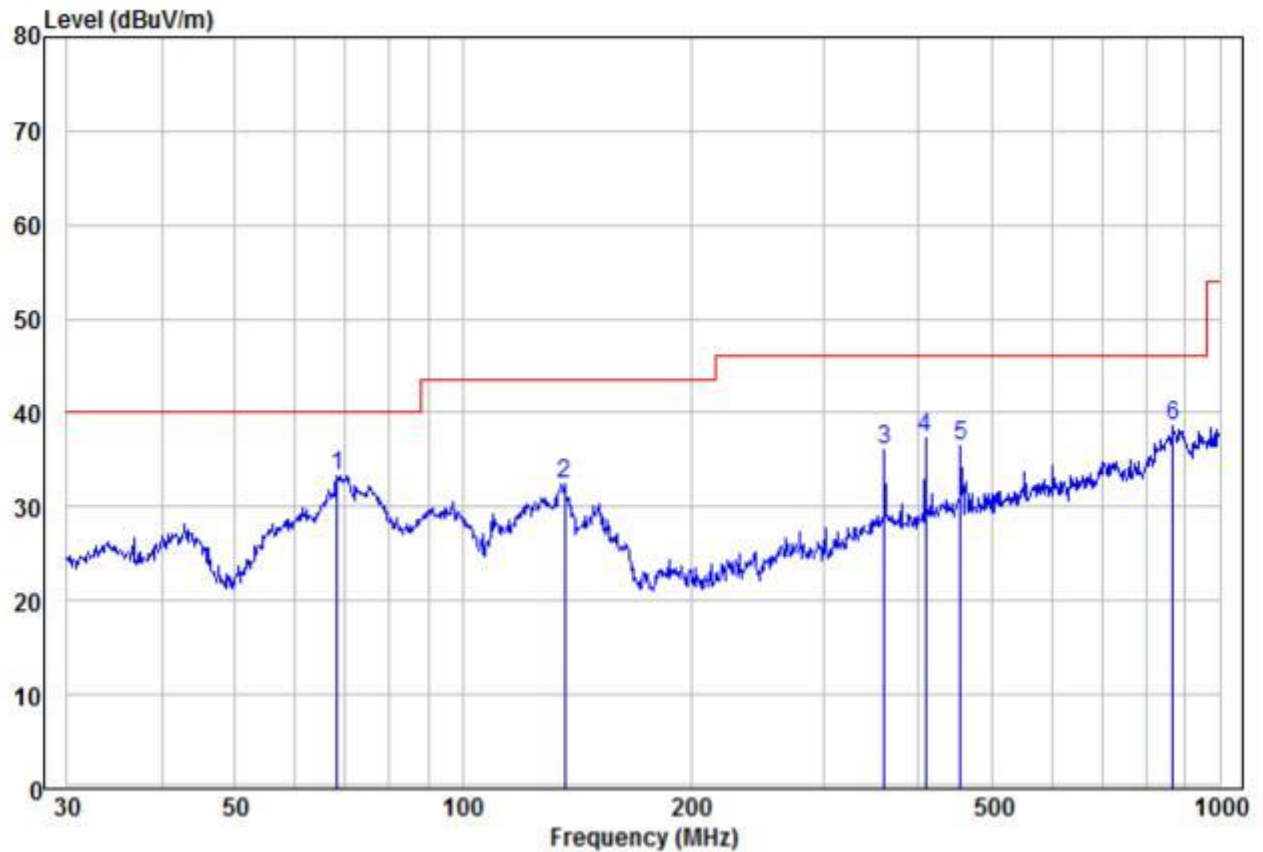
|      | Freq   | Read Level | Factor | Level  | Limit Line | Over Limit | Remark | Pol/Phase | APos | TPos |
|------|--------|------------|--------|--------|------------|------------|--------|-----------|------|------|
|      | MHz    | dBuV       | dB/m   | dBuV/m | dBuV/m     | dB         |        |           | cm   | deg  |
| 1 pp | 68.15  | 23.83      | 10.46  | 34.29  | 40.00      | -5.71      | Peak   | VERTICAL  | 100  | 280  |
| 2    | 136.46 | 22.62      | 9.71   | 32.33  | 43.50      | -11.17     | Peak   | VERTICAL  | 100  | 112  |
| 3    | 408.95 | 17.02      | 19.38  | 36.40  | 46.00      | -9.60      | Peak   | VERTICAL  | 100  | 163  |
| 4    | 455.91 | 15.97      | 20.45  | 36.42  | 46.00      | -9.58      | Peak   | VERTICAL  | 100  | 36   |
| 5    | 501.18 | 15.58      | 21.84  | 37.42  | 46.00      | -8.58      | Peak   | VERTICAL  | 100  | 245  |
| 6    | 975.75 | 10.38      | 28.96  | 39.34  | 54.00      | -14.66     | Peak   | VERTICAL  | 100  | 162  |

|            |                             |            |
|------------|-----------------------------|------------|
| Test mode: | Transmitting (802.11a 36CH) | Horizontal |
|------------|-----------------------------|------------|



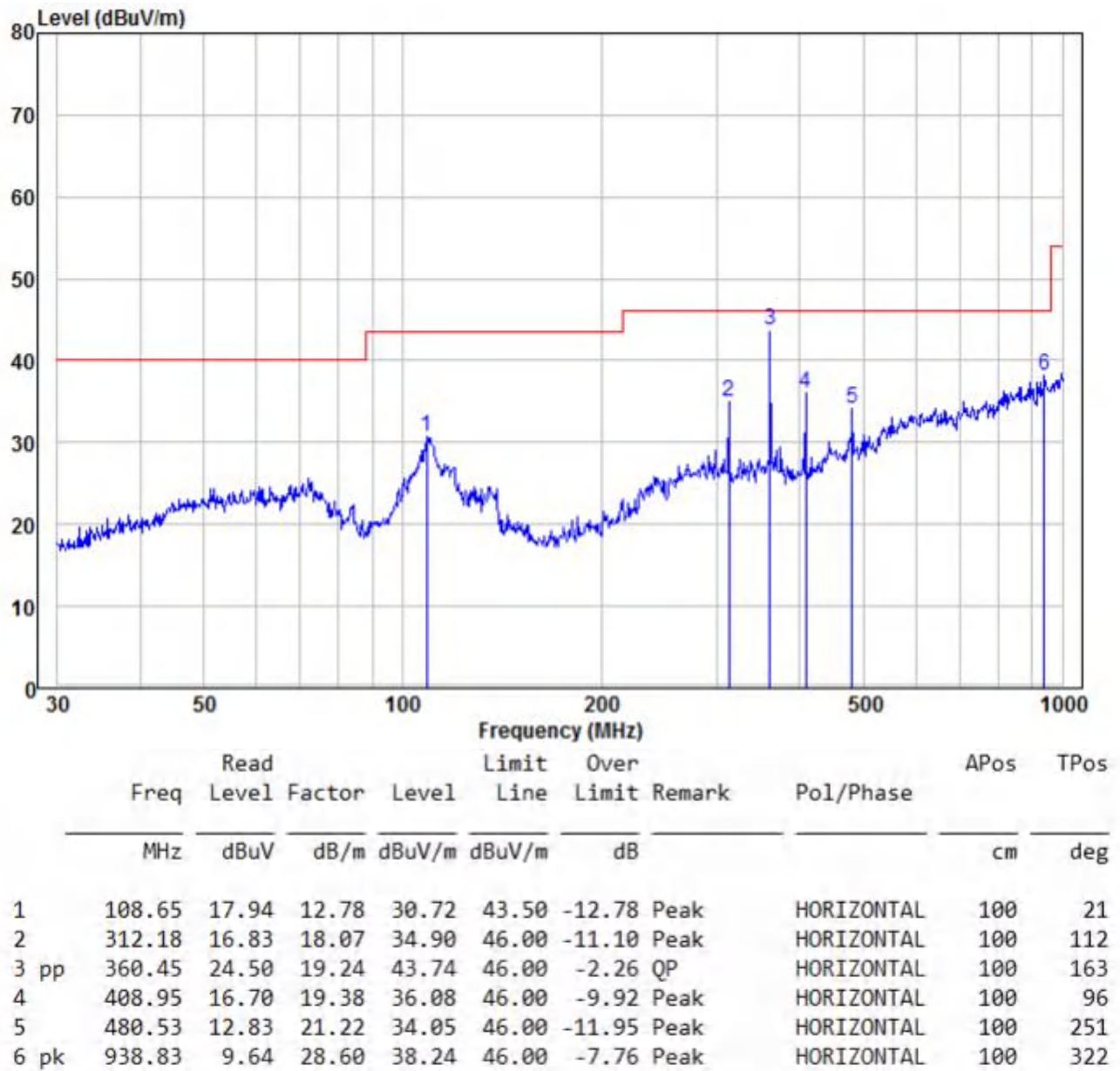
|      | Read   |        | Limit  | Over   |       |             |            | APos | TPos |
|------|--------|--------|--------|--------|-------|-------------|------------|------|------|
| Freq | Level  | Factor | Level  | Line   | Limit | Remark      | Pol/Phase  |      |      |
| MHz  | dBuV   | dB/m   | dBuV/m | dBuV/m | dB    |             |            | cm   | deg  |
| 1    | 108.65 | 16.94  | 12.78  | 29.72  | 43.50 | -13.78 Peak | HORIZONTAL | 100  | 165  |
| 2    | 312.18 | 18.83  | 18.07  | 36.90  | 46.00 | -9.10 Peak  | HORIZONTAL | 100  | 35   |
| 3 pp | 360.45 | 24.00  | 19.24  | 43.24  | 46.00 | -2.76 QP    | HORIZONTAL | 100  | 224  |
| 4    | 408.95 | 19.70  | 19.38  | 39.08  | 46.00 | -6.92 Peak  | HORIZONTAL | 100  | 206  |
| 5    | 504.71 | 16.23  | 21.88  | 38.11  | 46.00 | -7.89 Peak  | HORIZONTAL | 100  | 206  |
| 6 pk | 890.73 | 10.69  | 29.67  | 40.36  | 46.00 | -5.64 Peak  | HORIZONTAL | 100  | 123  |

| 30MHz~1GHz |                              |          |
|------------|------------------------------|----------|
| Test mode: | Transmitting (802.11a 149CH) | Vertical |



|      | Freq   | Read Level | Factor | Level  | Limit Line | Over Limit | Remark | Pol/Phase | APos | TPos |
|------|--------|------------|--------|--------|------------|------------|--------|-----------|------|------|
|      | MHz    | dBuV       | dB/m   | dBuV/m | dBuV/m     | dB         |        |           | cm   | deg  |
| 1 pp | 68.15  | 22.83      | 10.46  | 33.29  | 40.00      | -6.71      | Peak   | VERTICAL  | 100  | 185  |
| 2    | 136.46 | 22.62      | 9.71   | 32.33  | 43.50      | -11.17     | Peak   | VERTICAL  | 100  | 154  |
| 3    | 360.45 | 16.89      | 19.24  | 36.13  | 46.00      | -9.87      | Peak   | VERTICAL  | 100  | 335  |
| 4    | 408.95 | 18.02      | 19.38  | 37.40  | 46.00      | -8.60      | Peak   | VERTICAL  | 100  | 255  |
| 5    | 454.31 | 16.05      | 20.40  | 36.45  | 46.00      | -9.55      | Peak   | VERTICAL  | 100  | 169  |
| 6    | 869.13 | 9.19       | 29.34  | 38.53  | 46.00      | -7.47      | Peak   | VERTICAL  | 100  | 266  |

|            |                              |            |
|------------|------------------------------|------------|
| Test mode: | Transmitting (802.11a 149CH) | Horizontal |
|------------|------------------------------|------------|



### Transmitter Emission above 1GHz

| Test mode: | 802.11a(6Mbps) |        |                | Test channel: |        | 36 CH          |           |                |             |
|------------|----------------|--------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency  | Meter Reading  | Factor | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)      | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 10360      | 53.61          | 2.26   | 55.87          | 74            | -18.13 | peak           | H         | 1.5            | 195         |
| 10360      | 36.55          | 2.26   | 38.81          | 54            | -15.19 | AVG            | H         | 1.5            | 165         |
| 15540      | 50.67          | 3.75   | 54.42          | 74            | -19.58 | peak           | H         | 1.5            | 360         |
| 15540      | 37.29          | 3.75   | 41.04          | 54            | -12.96 | AVG            | H         | 1.5            | 134         |
| 10360      | 55.26          | 2.26   | 57.52          | 74            | -16.48 | peak           | V         | 1.5            | 265         |
| 10360      | 38.02          | 2.26   | 40.28          | 54            | -13.72 | AVG            | V         | 1.5            | 152         |
| 15540      | 50.72          | 3.75   | 54.47          | 74            | -19.53 | peak           | V         | 1.5            | 144         |
| 15540      | 36.10          | 3.75   | 39.85          | 54            | -14.15 | AVG            | V         | 1.5            | 97          |

| Test mode: | 802.11a(6Mbps) |        |                | Test channel: |        | 48 CH          |           |                |             |
|------------|----------------|--------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency  | Meter Reading  | Factor | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)      | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 10480      | 51.44          | 2.31   | 53.75          | 74            | -20.25 | peak           | H         | 1.5            | 87          |
| 10480      | 37.04          | 2.31   | 39.35          | 54            | -14.65 | AVG            | H         | 1.5            | 294         |
| 15720      | 49.83          | 3.79   | 53.62          | 74            | -20.38 | peak           | H         | 1.5            | 18          |
| 15720      | 36.81          | 3.79   | 40.60          | 54            | -13.40 | AVG            | H         | 1.5            | 21          |
| 10480      | 54.11          | 2.31   | 56.42          | 74            | -17.58 | peak           | V         | 1.5            | 132         |
| 10480      | 37.60          | 2.31   | 39.91          | 54            | -14.09 | AVG            | V         | 1.5            | 132         |
| 15720      | 49.56          | 3.79   | 53.35          | 74            | -20.65 | peak           | V         | 1.5            | 91          |
| 15720      | 36.60          | 3.79   | 40.39          | 54            | -13.61 | AVG            | V         | 1.5            | 125         |

| Test mode: | 802.11a(6Mbps) |        |                | Test channel: |        | 149            |           |                |             |
|------------|----------------|--------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency  | Meter Reading  | Factor | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)      | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 11490      | 52.96          | 2.54   | 55.50          | 74            | -18.50 | peak           | H         | 1.5            | 206         |
| 11490      | 37.28          | 2.54   | 39.82          | 54            | -14.18 | AVG            | H         | 1.5            | 89          |
| 17235      | 50.12          | 3.94   | 54.06          | 74            | -19.94 | peak           | H         | 1.5            | 356         |
| 17235      | 37.85          | 3.94   | 41.79          | 54            | -12.21 | AVG            | H         | 1.5            | 57          |
| 11490      | 53.64          | 2.54   | 56.18          | 74            | -17.82 | peak           | V         | 1.5            | 84          |
| 11490      | 37.26          | 2.54   | 39.80          | 54            | -14.20 | AVG            | V         | 1.5            | 199         |
| 17235      | 51.15          | 3.94   | 55.09          | 74            | -18.91 | peak           | V         | 1.5            | 257         |
| 17235      | 36.46          | 3.94   | 40.40          | 54            | -13.60 | AVG            | V         | 1.5            | 156         |

| Test mode: | 802.11a(6Mbps) |        |                | Test channel: |        | 165            |           |                |             |
|------------|----------------|--------|----------------|---------------|--------|----------------|-----------|----------------|-------------|
| Frequency  | Meter Reading  | Factor | Emission Level | Limits        | Over   | Detect or Type | Ant. Pol. | Antenna Height | Table Angle |
| (MHz)      | (dBμV)         | (dB)   | (dBμV/m)       | (dBμV/m)      | (dB)   |                | H/V       | (m)            | (Degree)    |
| 11650      | 52.54          | 2.58   | 55.12          | 74            | -18.88 | peak           | H         | 1.5            | 51          |
| 11650      | 37.03          | 2.58   | 39.61          | 54            | -14.39 | AVG            | H         | 1.5            | 155         |
| 17475      | 50.30          | 4.02   | 54.32          | 74            | -19.68 | peak           | H         | 1.5            | 241         |
| 17475      | 36.73          | 4.02   | 40.75          | 54            | -13.25 | AVG            | H         | 1.5            | 12          |
| 11650      | 55.16          | 2.58   | 57.74          | 74            | -16.26 | peak           | V         | 1.5            | 226         |
| 11650      | 37.01          | 2.58   | 39.59          | 54            | -14.41 | AVG            | V         | 1.5            | 283         |
| 17475      | 51.00          | 4.02   | 55.02          | 74            | -18.98 | peak           | V         | 1.5            | 104         |
| 17475      | 36.81          | 4.02   | 40.83          | 54            | -13.17 | AVG            | V         | 1.5            | 131         |

Remark:

- 1) The 802.11a 6Mbps of rate is the worst case, only the worst data recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 40GHz, The disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## 8 Photographs - EUT Test Setup

Refer to Photographs - EUT Constructional Details OF EUT for Photographs of Test Setup\_RF.

## 9 Photographs - EUT Constructional Details

Refer to Photographs - EUT Constructional Details OF EUT for Photographs of The EUT.

\*\*\* END OF REPORT \*\*\*